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The Chemical Market Authority Since 1871

Volume 151 No. 16 April 21, 1947

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SYNTHETIC ORGANIC CHEMICALS

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Oil, Paint and Drug Reporter

Volume 151 No. 16 | New York 7, N. Y. | April 21, 1947

Fertilizer Bill Shelved in House

OPD Washington Bureau

The Flannagan fertilizer bill (H. R. 2494) to put the government into the fertilizer production and distribution business has been pigeonholed for the remainder of this session by Chairman Cliford Hope, of Kansas, of the House Agricultural Committee, who announced last week that no major legislation affecting agriculture would be considered by his committee until next year.

The fertilizer bill, introduced last month by Representative John W. Flannagan, of Virginia, at the behest of the American Farm Bureau Federation, has been forwarded to the Department of Agriculture as a matter of course by the committee for comments of Secretary Clinton Anderson, but no pressure is being brought by the committee for an early report. It is believed generally in the trade that the secretary is opposed to the bill, but there has been nothing official from the department on this score.

It was announced by Representative Hope that it was the intention of his committee to conduct an exhaustive study of the whole range of agricultural problems, before attempting any piecemeal legislative remedies. The study will get underway today (Monday), with Secretary Anderson as the first witness, to be followed by leaders of the various farm organizations to outline the problems of agriculture.

Following the opening statements, the committee then will hold hearings on the separate aspects of the problems, such as price supports and price relationships, revision and application of the parity formula to farm commodities, marketing and distribution research, improvement of nutrition and upgrading of the diet, international trade and expanded world consumption of agricultural products. Conservation of soil, forests, and other agricultural resources, and improvement in the standard of living in rural communities.

Mr. Hope said that it would be the most exhaustive study of agricultural conditions made by Congress in recent years and is intended to provide the committee with data on long range agricultural policies to be considered next session.

Fertilizer Materials, Soaps Control Eased

The Office of International Trade has modified its controls over exports of certain fertilizer materials and soap preparations by placing them under the Group K category so that they may be shipped under general license.

Removed from the positive list and placed under general license were Florida high-grade rock and land-pebble, and phosphate rock of Tennessee, Idaho and Montana. Heretofore these materials were on general license to the Philippine Islands and all destinations in North America and South America only.

The soap preparations removed from the positive list are medicated soaps, retail packages of shaving creams, retail packages of shaving powders, shaving cakes and sticks, and abrasive types of pastes and powders with a fat content above 10 percent. Shaving creams and shaving powders in bulk remain on the positive list, as well as abrasive types of soap having a fat content above 10 percent other than pastes and powders.

Far East-America Council Reelects

Arthur B. Foye has been reelected president of the Far East-America Council for the fiscal year, 1947-1948. Other officers elected were:—C. S Ching, director of industrial and public relations of the U. S. Rubber Company, chairman of the board, and Lee H. Bristol, vice-president of Bristol-Myers Company, vice-chairman.

Rapeseed Meal Quota for Denmark

OPD Washington Bureau

An emergency allocation of 900 long tons of rapeseed meal to Denmark was announced last week by the Department of Agriculture. This is in addition to the 10,000 long tons of oilcake or meal allocated to Denmark on February 4 for the first six months of 1947. The emergency allocation is chargeable against world allocations or protein feeds as recommended by the International Emergency Food Council.

U.S. Seeks Norwegian Drug Tariff Revision

OPD Washington Bureau

The American Drug Manufacturers Association has been advised by the State Department that efforts would be made at the conferences now being held in Geneva on world tariffs to seek an adjustment of the Norwegian tariff rates on pharmaceuticals which hinder the movement of United States products to that country.

Carson P. Frailey, executive vice-president of the association, called the department's attention to the Norwegian law some time ago which, he said, appears to have an adverse affect on our foreign trade in the pharmaceutical field.

He said that he has been advised by the department that it is aware of the situation and planned to take up the matter with the Norwegian officials at the Geneva conferences, with the intention of seeking a satisfactory solution to the problem.

Sweden-U.S. Trade Pact to Be Studied

OPD Washington Bureau

The State Department announced last week that a Swedish trade delegation has arrived in Washington to discuss the problem surrounding the application of the recently imposed Swedish import restrictions in their relation to the United States—Swedish Reciprocal Trade Agreement of 1935.

Congress Plans Early Action On Export Controls Extension

OPD Washington Bureau

Initial moves of the government to continue the programs of export control beyond the June 30 termination date got underway in the house last week with introduction of a bill (H. R. 3049) by Representative Paul W. Shafer, of Michigan, to extend the export control act for another year to June 30, 1948.

At the same time, the Bureau of the Budget called upon the other agencies of the government for their views on the desirability of requesting Congress for legislation to implement the program by continuing domestic controls over such products as cinchona bark, and streptomycin which are now being controlled under the Second War Powers Act. These controls also expire June 30.

The Shafer bill simply amends the present export control law to change its expiration date to read "June 30, 1948" and exempts the operation of this law from the requirements of the Administrative Procedure Act. Thus it would make possible the continued operation for another year of the government's present export programs on fats and oils, nitrogen, and other products in short supply.

Hearings on the bill are expected to get underway in a week or ten days before a subcommittee of the house committee on armed forces to which the bill was referred. Committee officials said that they are ready to start work on the bill whenever the budget bureau and the interested departments and agencies have their data for presentation.

Whether the implementing legislation will come up for consideration before this committee or be handled as a separate bill by the house judiciary committee, which sponsored the bill last month that continued the Second War Powers Act for ninety days, is not known at this time, but it is almost certain that reference will be made to it at the hearings.

The Civilian Production Administration is planning to recommend to the budget bureau that it favor a continuation of domestic controls over cinchona bark and streptomycin, and also that the government continue to be the sole importer of cinchona bark until conditions surrounding this product become more normal. The agency has been canvassing the trade on this question and claims it finds it also in favor of continued control.

At hearings last month before the senate and house committees during consideration of the Second War Powers Act extension, witnesses for Merck & Co. and the New York Quinine & Chemical Works, entered a strong appeal for continued government purchase of the bark, warning that if the program was dropped the domestic industry would be at the mercy of the Dutch quinine monopoly.

Get RFC Out of Business

However, there are others in the government who feel that the RFC should get out of the business of being the sole importer as quickly as possible and turn this business back to private hands. They feel that the government should no longer be asked to hold an umbrella over the industry and that the importers should take their chances in the world market the same as importers of other products.

The CPA's argument is, however, that the situation with respect to cin-

—*Continued on page 41*

Antimony Supply Held Inadequate

OPD Washington Bureau

Despite some improvement in domestic production of antimony, the 1947 supply will not support consumption at the 1946 rate, according to a report on this year's outlook for this metal issued last week by the civilian production administration.

The consumption of primary and secondary antimony in the United States was 37,378 short tons in 1946 and exceeded new supplies by nearly 8,000 tons, the report said. This deficit was made up by large withdrawals from stocks of the Office of Metals Reserve which are now near exhaustion.

Increased domestic production, careful distribution of the remaining reserve of government stocks to help the most critical situation, and maximum recovery of antimony from scrap are suggested ways of reducing the anticipated deficit in the 1947 supply.

U.S.I. Gets Cuban Ethyl Alcohol at 67.9c.

OPD Washington Bureau

U. S. Industrial Chemicals, Inc., New York, has been awarded by the Reconstruction Finance Corporation 1,250,000 gallons of Cuban ethyl alcohol at 67.9 cents a wine gallon. The cargo, the second to be awarded by the agency, is scheduled to arrive at Curtis Bay, Md., April 22.

RFC will open bids April 22 on a third shipment, scheduled to arrive May 5, of another 1,250,000 gallons. The initial cargo of 1,250,000, which arrived in Louisiana, April 12, was awarded to the Commercial Solvents Corporation, New York, at 73 cents a gallon.

Price Trend Dips Still More

Price views in the markets for chemicals, oil, and drugs continued last week to support the position of the group of economists who say prices are going down, whatever may be thought about whether they are too high. Further cooling of buying interest was the controlling influence in most instances. Short-term commitments are being adopted more and more widely. Shipments are still above the volume of a year ago, but they are not taking as large a proportion of production. This condition does not apply with respect to alkalies and related chemicals. Consumers of those materials would take much more than they can get. Additional production is near, but existing power plants are beginning to show the effects of overstraining.

The major influence on the price trend came again from the fats and oils area. Sixteen reductions were made there in both the animal and the vegetable oil sectors. Linseed oil was the only noticeable absentee in the latter list of cuts. There was one break in the still firm inorganic chemicals position—the price of potassium chlorate was reduced under the influence of sagging interest on the part of the match industry which is waiting to see what happens to its excise tax. The phenolic group of coaltar bases was on the up side, as had been expected. Export demand pushed up potato starch, and the high price of eggs was reflected in albumen and yolk. The only other boost by agricultural economics was in turpentine: rosin was reduced, and denatured alcohols were shaved a little.

There was a mixed picture in organics, nitrocellulose and propionic acid leading the four going up, and menthol being notable among the four downs. Peppermint oil was advanced, but there were three imported essential oils and four domestics on the downside. Botanicals, both food and drug, were sagging.

Sodium stannate was again available, under rather stringent controls. Tin oxide and antimony sulphide were higher. Quicksilver was down. Shrunken demand brought further cuts in dried blood, tankage, and milk powders.

OPD Price Index

The Oil, Paint and Drug Reporter's relative record of prices for chemicals and related materials is currently as follows:—

Apr. 17, 1947	Apr. 10, 1947	Apr. 18, 1946
151.2	154.0	135.0

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1947	1946	1945	1941
January	150.9	135.3	133.0	107.8
February	151.9	135.4	133.2	110.3
March	154.9	135.2	132.7	111.9
Year's av'age		138.8	133.3	123.2

Fats, Oils Second Quarter Quotas Set

OPD Washington Bureau

The Department of Agriculture has announced fats and oils export allocations totaling 89,300,000 pounds for the second quarter of 1947. This includes 5,100,000 pounds allocated to export claimants in exchange for other fats and oils needed in the United States. For the second quarter of 1946 final allocations totaled 236,100,000 pounds.

The April-June, 1947, allocations include, in fat content, 39,700,000 pounds of lard, 4,400,000 pounds of margarine, 22,800,000 pounds of shortening and other edible oils, 11,600,000 pounds of inedible fats and oils, and 10,800,000 pounds of soap.

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National Lead Advances Rockwell and Martino

Fletcher W. Rockwell has been elected chairman of the board of directors, and Joseph A. Martino has been named president of National Lead Company. Mr. Rockwell has been president since 1938 and Mr. Martino executive vice-president since last year.

Eliz. Arden Loses Demonstrator Case

OPD Washington Bureau

The Supreme Court of the United States last week refused to review the decision of a lower court sustaining an order of the Federal Trade Commission which held the Elizabeth Arden Sales Corporation in violation of Section 2 (E) of the Clayton Act in use of demonstrators to further the sale of its cosmetic products.

Effect of the court's action in denying the company's petition for a writ of certiorari was to uphold the commission's order directing the company to discontinue discriminating against its purchasers by furnishing demonstrators to retailers on terms disproportionally equal in terms to other retail purchasers.

The court's action is of major importance to the cosmetic industry because, at present, there are pending six other cases brought by the commission against large cosmetic firms all directed at the same use of demonstrators. It is assumed that these now will be decided in favor of the commission.

Also, the court's action is expected to strengthen the commission's hand in seeking a strong rule curbing the use of demonstrators in the industry in the trade practice rules to be formulated at an industry-commission conference slated for the near future.

The Elizabeth Arden company attacked the commission's order on the grounds that Section 2 (E) was unconstitutional because Congress failed to limit its application to persons engaged in interstate trade, and because the standards in the section were so indefinite that the section constituted an improper delegation of legislative power.

Cosmetics Trade Practice Parley Set

A trade practice conference or the toileties of the cosmetic industry will be held under the auspices of the Federal Trade Commission at the Waldorf-Astoria hotel, New York, beginning May 12. Federal Trade Commissioner Robert D. Freer will preside at the conference.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Agar, Amsterdam, Netherlands (N-11).
Alcohol, Borgo San Lorenzo, Italy (N-8).
Botanical drugs, Amsterdam, Netherlands (N-11).
Caustic Soda, Sao Paulo, Brazil (N-20).
Cellulose, Aracaju, Brazil (N-18).
Chemicals, Sao Paulo, Brazil (N-12, N-15, N-16); Karachi, India (N-5).
Cornstarch, Langenthal, Switzerland (N-3).
Glass polish, Florence, Italy (N-6).
Oils, Turin, Italy (N-7); Batavia, Java (N-2).
Oilseeds, Borgo San Lorenzo, Italy (N-8).
Paint, Florence, Italy (N-6).
Paraffin, Sao Paulo, Brazil (N-17).
Pectin, Amsterdam, Netherlands (N-11).

—Continued on page 37

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumers goods recently compiled by the Commercial Intelligence Division of the United States Department of Commerce include the following, which are available from the division at $1 for a list for any one country:—

Chemical importers and dealers, Iran.
Hospitals, Mexico.
Laundry and dry-cleaning industry, Bolivia, Colombia, Turkey.
Medicinal and toilet preparation importers and dealers, Haiti, Ireland.
Oil, (animal, fish, vegetable) importers, dealers, producers, refiners, and exporters, Brazil, Mexico.
Paint and varnish importers and dealers, British Honduras, Dominican Republic, El Salvador, Honduras, Iran, Ireland, Nicaragua, Panama, Paraguay, Surinam.
Petroleum industry, Mexico.

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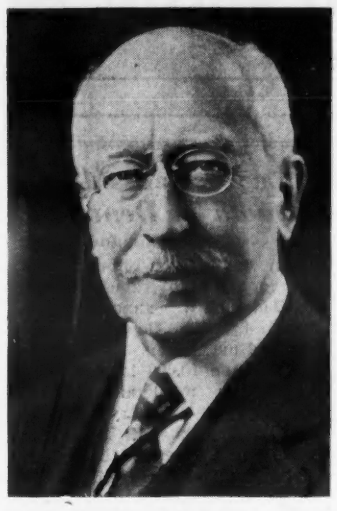


Prof. Marston T. Bogert, of the chemical faculty of Columbia University, has been elected the first honorary member of the Association of Consulting Chemists and Chemical Engineers.

Phthalic Anhydride Facilities Sold

OPD Washington Bureau

A partially constructed phthalic anhydride facility located in the center of the Pittsburgh Coke & Chemical Company's Neville Island plant at Pittsburgh has been sold for $525,000 to the Empire Chemical Company, a newly-created subsidiary of Pittsburgh Coke. War Assets Administration said that the fair value nas been set at $670,000 as against an original cost of $1,221,210.

Five buildings on 2.3 acres of land are from 63 to 96 percent complete. They are being constructed of brick and concrete but in most cases are without heating and lighting installations. Other utilities were completed. The Neville Island plant could not be removed successfully nor could it be operated as an independent unit.

Paint Materials Costs Analyzed for N.Y. Group

A detailed analysis of production and price trends and their backgrounds in the field of paint materials was presented at a meeting of group A members of the New York Paint, Varnish and Lacquer Association, April 17, by Hugh Craig, editor of OIL, PAINT AND DRUG REPORTER. Mr. Craig was present under the sponsorship of the raw material markets committee of the association and was introduced by A. J. Wittenberg, cochairman of the committee. Prof. Louis A. Harvey, of the economics faculty of New York University, spoke on the general economic picture and outlook.

Prices of materials contributing more or less direct to the composition of paints and related coatings were shown by Mr. Craig to compare

—Continued on page 37

Bids Wanted

Acetone, U.S.P., 50 tons, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.
Aluminum sulphate, 2,000 pounds, Department of Justice (Alderson, W. Va.) invitation 6-1946, April 23; 60,000 pounds, Army Quartermaster (Ft. Benning, Ga.) invitation 14, April 25.
Benzol, 200,000 gallons, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.
Bismuth metal, U.S.P., 1 ton, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.
Black pepper, 120,000 pounds, Army Quartermaster (New York City) invitation 186, April 24.
China clay, 198 metric tons, Army Quartermaster (New York City) invitation 177, April 25.
Chlorine, City of Cleveland, Ordnance No. 585-47, April 25.
Compressed gases, as required during fiscal year 1948, Veterans Administration Hospital (Muskogee, Okla.) invitation 48-6, May 12; Veterans Administration Hospital (Newington 11, Conn.) invitation 48-1, May 14.
Cresol, U.S.P., 17,000 gallons, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.
Cuprous cyanide, 2,280 pounds, Army Air Material Command (Dayton, Ohio) invitation 630, April 30.
Dipping oil, 1,925 gallons, Army Ord-

—Continued on page 37

Market Reports

Butyl alcohol and acetate prices on goods produced at points other than Illinois and Indiana have been reduced to the following levels:—Tanks, 31c. per pound; drums, carlots, 32½c.; less than carlots, 33½c. No changes have been made in quotations on production in Illinois and Indiana.

Cottonseed oil developed further weakness late in the week and crude oil sold at 30c. per pound, tankcars, f.o.b. Valley. Earlier trading took place at 32c. in the southeast.

Film scrap materials were listed at 15½c. per pound for the colored grade in cases and 16½c. per pound for the clear washed materials. Business was routine.

Linseed oil shipments from the Argentine totaled 3,241 tons to the United Kingdom and 1,389 tons to the United States last week, according to cable advices from Buenos Aires, April 18.

Nitrocellulose trading continued routine in this market. Prices for alcohol-soluble materials were listed at 29c. per pound for the one-half second grade, and 29¾c. per pound for the 5-6 second grade. Ester-soluble material, 5-6 second grade, was quoted at 35c. per pound.

Peanut oil was easier, with business noted in crude at 30c. per pound, tankcars, f.o.b. mills Valley, a decline of 2c. per pound.

Pepper production in Bangka and southern Sumatra, Netherlands East Indies, is now no more than 25 percent of the prewar output of 40,000 to 50,000 tons a year, according to the general economics adviser to the Netherlands Indies government. Pepper stocks in the interior controlled by the Indonesian Republic natives are very limited, it was said. The outlook is bad because new plantings take seven years to bear,

Propionic Acid—Higher prices have been established for the synthetic grade. Drums in carlots are priced at 22c. per pound and tankcars at 21c. per pound, f.o.b. the works.

Silver bullion declined to 75⅝c. per ounce last Friday. No change was made in quotations on silver nitrate or other silver salts.

Soybean oil declined further. Crude oil for April shipment was old at 27c. per pound, f.o.b. mills. Nearby and future deliveries also were lower at 26½c. for April-June and at 25c. for July-September.

Turpentine sulphate prices were listed at 65c. per gallon in drums at Southern shipping points in a wide-open market.

Wood turpentine prices were quoted lower last week. Prices for destructively distilled materials in drums at Southern shipping points were 74c. per gallon for carlots, 75c. for less carlots and 65c. for tanks. Steam distilled was quoted at $1.06 for less carlots in the East and 85c. for tanks in the South.

National Lead Sued On Bentonite Patent Use

The National Lead Company has been named defendant in a suit by Wyodak Chemical Company, Heights Village, Ohio, charging the improper utilization of its patent on the use of bentonite in the drilling of oil and gas wells. The suit, asking $1,000,000 damages, was filed in the Federal district court in New Jersey.

The validity of the National Lead Company's patent on the use of bentonite was upheld in 1935. However, the complainant in the suit filed last week charged National Lead with imposing exorbitant license fees on the use of bentonite in the oil wells industry.

Drug Contact Committee Surveys Trade Problems

OPD Washington Bureau

The contact committee of the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers Association concluded a two-day meeting here last week, with the announcement that considerable progress had been made by its subcommittees on a number of technical problems of the industry. No conclusions were reached, however, on any of the projects underway.

Oil, Paint and Drug Reporter, Vol. 151, No. 16, April 21, 1947. Published every Monday by Schnell Publishing Company, Inc., 59 John St., New York 7, N. Y., U. S. A. Subscription price:—United States and possessions, Cuba, Central America, and South America, $5 a year; Canada and Newfoundland, $7; other countries, $10. Entered as second-class matter, January 15, 1884, at the New York Post Office, under the act of March 3, 1879. Copyright, 1947, by Schnell Publishing Company, Inc.

Washington Talks It Over

The OPD Observer

The house ways and means committee is being flooded with communications both for and against the tax advantages now being enjoyed by cooperatives and may place this subject on the agenda for consideration if and when it ever gets around to the long-promised hearings on general tax revision.

The subject of cooperatives' taxes has been a burning issue ever since the Patman small business investigating committee last year looked into the question of the impact of these organizations competitively on little business. The upshot of the inquiry was a report by Mr. Patman that any tax advantages which the cooperatives might enjoy over their competitors was inconsequential, which promptly drew a retort from one of the committee members that the report was nothing more than the views of the investigators and never was approved formally by the committee itself. Nevertheless, it was enough to arouse the interests of businesses throughout the country into the question of cooperatives' taxes, and to force that to become an issue in any plan for general revision of the tax structure.

Whether the ways and means committee will get around to taking up the general tax question this year is problematical. Right now it is engaged in extensive hearings on the reciprocal trade agreements program. Adjournment of Congress is tentatively set for mid-July which leaves very little time for consideration of the whole tax question in the manner that has been planned.

Louse Is On Way Out

The Department of Agriculture is now visualizing a lousefree world as a result of the advances made in the past five years in development of new insecticides. Unfortunately, it is speaking of the insect louse, not of the human species. The latter is too well protected by the laws against murder, mayhem, and so on.

E. F. Knipling, Federal entomologist in charge of research on insects affecting man and animals, says that in the past five years there have been four major advances in louse-control —insect, that is:—(1) Methyl bromide fumigation of clothing: (2) discovery of the MYL powder which was more effective than any previous louse-killer; (3) development of DDT, and (4) discovery of several other highly effective louse-killing chemicals at least two of which are practically on a par with DDT.

This last research result, says Knipling, lends support to the hope for complete eradication of the louse. Scientists say it is only a hope, however, because they have seen repeated examples of pests' developing strains that are resistant to control measures. Some louse strain might develop that resists DDT. But, if that happens, the eradicators have the newly developed materials "3956" (chlorinated camphene) and chlordane to put into the campaign.

Buttermilk and Labor

For want of a single word in the fair labor standards act, Minnesota's dry buttermilk business is threatening to become ensnared in a bitter labor controversy and dry up completely, so says Minnesota's Senator Edward J. Thye.

When the fair labor standards act was first enacted, the enbuttered dairy bloc succeeded in getting an exemption written into the bill for the first processing of such agricultural products as milk, cream, skimmed milk and whey. They overlooked the inclusion of buttermilk in the list of exemptions, however, and now the Wage-Hour Administration is threatening to apply the standards in the law to the workers engaged in the processing of dry buttermilk.

Mr. Thye has rushed to the aid of the dairy people with an amendment to the act and is now trying to win the senate labor committee over to his views. If the past performances of the dairy bloc in getting Congress to dance to its tunes are any criterion, the bets are that Congress will go along and lift the coverage of the law from these workers.

CPA et al. Have Shrunk

Figuratively speaking, the Chemicals Division of the Civilian Production Administration is now carrying on its operations from an anteroom. This division, which boasted of being the largest of any division in the War Production Board — employing over 600 persons—during the height of the war, has now shrunk in size to six persons.

The only ones now remaining are Frank Bennett, chief; Frank D. Bradley, handling drugs; and Wilson T. Hart, handling organics—and their three secretaries. What is left of the agency also has been moved out of its quarters in the Social Security building and is now lodged in temporary building "K" located near the Navy Department.

The job of final liquidation of the CPA, OPA, OWMR, and OTC has been placed in the hands of Secretary of Commerce Harriman. Under congressional orders these agencies have to get out of business completely by June 30.

Philippine Copra Outlook

Though the story of the rehabilitation of the Philippine copra industry has been told many times, the statistical record of exports since the islands were wrested from Jap control is even more impressive. In 1945, only 6,000 long tons of copra were exported from the Philippines. Early in 1946, it was estimated that the total for the year might reach 350,000 tons. That was considered optimistic; but actual ship-

—*Continued on page 32*

Insecticide Bill Passage Nears

OPD Washington Bureau

The Andresen insecticide bill (H.R. 1237), which has been endorsed by both industry and agriculture, will be reported to the house for passage this month, according to members of the subcommittee of the house agricultural committee.

The subcommittee plans to hold an executive session within a week to pass upon several amendments proposed by the Department of Agriculture and submit the revised measure to the full committee, where approval is expected.

Hearings held by the subcommittee recently developed a unanimity of opinion among the industry, spokesmen for agricultural organizations and representatives of the department on the need for legislation to modernize the present insecticide control laws, although some opposition was expressed to several of the amendments proposed by the department. Counsel for various state governments also appeared in favor of the bill and urged its passage as a model for state enactments.

Five amendments touching on the substantative provisions of the measure were offered by Dr. Harry E. Reed, director of the livestock branch of the Production and Marketing Administration, of which three were opposed by industry.

One of the amendments sought to broaden the term "labeling" to include misleading directions for use of the insecticide which might be distributed separately from the article. Although Dr. Reed explained that the amendment was worked out in cooperation with the Federal Trade Commission, industry objected to its inclusion in the bill on the grounds that there was no evidence of a need for such an extension of the controls.

Another amendment proposed to impose reasonable fees for registration of an economic poison, and required periodic renewal of registration. The department argued that the amendment would serve the twofold purpose

—*Continued on page 65*

Cuban Blackstrap Molasses Sold

OPD Washington Bureau

The Reconstruction Finance Corporation has announced the sale of three additional cargoes of blackstrap molasses from Cuba due to arrive the latter part of this month and early in May under competitive bids opened by the agency April 11.

Contracts were awarded to the following:—two shipments of 1,800,000 gallons each, due to arrive April 28 and May 4, to E. I. du Pont de Nemours & Co., Inc., at 34.32 cents a gallon, and one shipment of 1,400,000 gallons, due to arrive April 29, to Pacific Molasses, Ltd., at 31.30 cents a gallon.

The agency has now disposed of approximately 25,000,000 gallons of blackstrap since sales were begun February 24, out of a total of 85,000,000 gallons being acquired this year from Cuba.

U.S. Tin Study Group Delegates in Brussels

OPD Washington Bureau

Arrival of a United States delegation in Brussels to aid in the formulation of an international tin study group, was announced last week by the State Department.

It was agreed at the world tin conference at London in October, 1946, that such a study group was needed in order to maintain continuous inter-governmental review of the world tin situation. The governments of the following countries have formally agreed to participate in the study group: — Belgium, Bolivia, China, France, the Netherlands, Siam, the United Kingdom, and the United States.

Trullinger Gets Added Agriculture Dept. Duties

OPD Washington Bureau

Dr. R. W. Trullinger, chief of the office of experiment stations in the Department of Agriculture, has been given the additional duties of assistant administrator of the agricultural research administration.

Railroad Rates Plan Opposed

Appearing before the public hearing of the Official Classification Committee and Joint Conference-Official Classification Territory Lines of the railroads, in Buffalo April 16, representatives of the chemical, drug and toilet preparation industries registered a protest against the proposed changing of freight rates on their products to an actual value basis.

If adopted, the proposals would result in increases ranging from 12½ percent to 400 percent over present ratings for carload and less carload lots.

Speaking on behalf of the industries, George O. Griffith, chairman of the committee on transportation of the Proprietary Association of America, lodged a strong objection to the carriers' proposal, and declared that "it seems to us to be elementary and unnecessary to be called upon to defend the present basis of less carload and carload rates."

Mr. Griffith's remarks were based on a brief drawn up on the previous day at a meeting of more than 100 traffic managers and other representatives of the industries, held under the direction of the Drug and Toilet Preparation Traffic Conference.

Following the conference, Mr. Griffith expressed his belief that the carriers would adopt within thirty days the recommendations of the industries to abandon any further consideration of the proposals and to appoint a special committee to study these problems in conjunction with a special shippers committee from the various industry trade associations.

Addressing the joint conference, the speaker characterized the proposals as "far beyond the zone of reasonableness," and declared that "a mere statement of belief on the part of the rail carriers that they are being subjected to excessive risks in transporting our commodities, not supported by any factual data, is not in our opinion sufficient foundation upon which to base such proposals as are here under consideration,."

Claims Record Good

Mr. Griffith explained that, based on the volume of tonnage, or on the total freight revenue paid, compared with the total number and total

—*Continued on page 42*

Market Research Group Against Merger

A proposal providing for a merger of the Technical Service Group and the Chemical Marketing Research Association was defeated overwhelmingly at a meeting of the latter association, held in the du Pont hotel, Wilmington, Del., April 17. Defeat of the proposal was attributed to the belief that both associations could carry out their particular phases of market research individually, with greater benefit to the chemical industry as a whole, The association voted in resolution form to cooperate at all times with the Technical Service Group.

A. E. Marshall, president of the Rumford Chemical Works, Rumford, R. I., who spoke at the evening session of the meeting, outlined the contributions of the chemical industry to industrial and social progress from the dawn of the ancient alchemist's art to modern times.

"The manufacture of chemicals is a catalyst for all industry," said Mr. Marshall. "Its products create new industries typified in such materials as rayon, plastics, synthetic surface finishes, solvents, and detergents.

"The products of the chemical industry also enable older industries to improve their materials and thus hold their competitive positions as exemplified in plywood for lumber, finishes for cotton and woolen textiles, hydrogenated shortenings. dextrose and lecithin for foodstuffs to name but a few.

"The chemical industry may lay fair claim to its contribution to higher living standards achieved through creating new jobs and increasing employment, with resulting increased overall industrial production.

"Products made by 287,000 men and women working in the nation's chemical plants were essential materials in other manufacturing enterprises that employed 7,603,000 wage earners in 1939, most recent year for which figures are available.

Social Progress

"Social progress is reflected by more than higher standards of living. Decreased incidence of epidemic and other diseases through chlorination of potable waters, chemical treatment of sewage, the advent of pharmaceuticals specific to diseases, chemical sanitation of foodstuff plants, all play their part in improving our living conditions and extending our years.

"It is difficult to review any of the steps which have improved our social fabric without finding that in some way, although not always importantly, the products of the chemical industry have played their part.

"There are in the plant production picture certain elements of measurement, one being production per man-hour. Why not sales per man-hour? Why not the discovery of some yard-

—*Continued on page 40*

Benzedrine 'Trust' Suit Withdrawn

The action in the Federal court in Philadelphia in which Smith, Kline & French Laboratories was alleged to have violated the antitrust law in its control of the distribution of 1-phenyl-3- aminopropane under its benzedrine patent, has been withdrawn by the complainants, Clark & Clark and C. L. Morris and R. B. Morris trading as Professional Laboratories.

Smith, Kline & French Laboratories has foregone the privilege of collecting from Clark & Clark the damages awarded in the latter's unsuccessful attempt to invalidate the benzedrine patents which it was changed with infringing.

Manufacturers Census Bill Passage Urged

OPD Washington Bureau

Favorable action on the Hawkes Bill (S. 554) for a five-year census of manufacturers, mineral industries, and other businesses beginning in 1948, was urged upon Congress last week by Undersecretary of Commerce, William C. Foster.

Testifying before the Senate Civil Service Committee, Mr. Foster said that business operations have become so complex that new and more frequent collection of statistics is urgently needed to increase efficiency in industry.

PERFUME
IS AN OLD INDIAN TRICK

In ancient India, Cupid was an ingenious fellow. Armed with a sugar-cane bow, he put perfume in hearts and the light in lovers' eyes by shooting arrows tipped with fragrant blossoms. Modern cupids put his marksmanship to shame with *enduring* flower fragrances —in perfumes compounded with *alcohol.*

CSC Rossville Hexagon Cologne Spirits protect and preserve perfume beauty . . . guard delicacy of bouquet . . . assure purity, clarity, uniformity, and freedom from foreign odor.

The fine CSC Rossville Alcohols satisfy the exacting needs of the cosmetic, pharmaceutical, and industrial fields.

Rossville Hexagon* Cologne Spirits
Rossville Algrain* Alcohol U. S. P.
Rossville Gold Shield* Alcohol U. S. P.
Rossville Alcohol (Specially Denatured)
Rossville Anhydrous Alcohol
*Reg. U. S. Pat. Off.

Commercial Solvents Corporation
17 EAST 42ND STREET, NEW YORK 17, N. Y.

1847 — A CENTURY OF FINE ALCOHOLS — 1947

Industrial Application Of Chemicals

"Where You Can Sell"

Fully Protected by Copyright

1-Beta-acetamidoethyl-2-pentadecyliminazolin Acetate

Miscellaneous — Claimed (Brit. 549328) as waxy solid, soluble in water, stable in acid mediums.

Textile—Donator (Brit. 549328) of permanent soft feel to cellulose textiles.

Bismuth-Betanaphthol

(Bismuth Betanaphtholate, Bismuthi Betanaphtholas, Orpholvon Heyden)

Pharmaceutical — In compounding and dispensing practice (said to break up in the intestinal tract with liberation of betanaphthol so as to exercise a more powerful antiseptic action than other salts of bismuth).

Boron Fluoride

(Additional uses—supplementary to those given in the book, Uses and Applications of Chemicals and Related Materials.)

Chemical—Catalyst in condensation of aromatic neuclei with acids, diolefins, olefins, paraffins; in esterfication processes; in polymerization of unsaturated compounds, such as diolefins, fatty oils, olefins, terpenes, vinyl ethers; in syntheses of aliphatic acids from alcohols and carbon monoxide.

Promoter and dehydrating agent in sulphonation and nitration of aromatic compounds.

Rubber—Cyclizing agent for rubber.

Cedilanide

Pharmaceutical — Crystalline substance found in *Digitalis lanata, not* in *Digitalis purpurea*, said to be more effective, in some respects, than *Digitalis purpurea* in treatment of heart disease; claimed (1) to be the first superior substitute for digitalis; (2) to produce the same effect; (3) to act more rapidly.

7-Chlor-4-(4-diethylamino-1-methylbutylaminoquinolin)

(SN 7618)

Pharmaceutical—New synthetic drug claimed to be superior to both atebrin and quinine as an effective malarial suppressive; to cause an abrupt termination of the clinical variety of malaria; neither to discolor the skin nor produce gastro-intestinal irritation.

Cobalt Blue

(Aluminate de Cobalt, Azul de Cobalto, Azzurro di Cobalto, Bleu de Cobalt, Bleu Royal, Bleu de Thenard, Cobalt Ultramarine, King's Blue, Kobaltblau,

—Continued on page 53

Book Reviews

The Cooperage Handbook, by F. P. Hankerson, 182 pages, 8½ x 5¼, The Chemical Publishing Company, Brooklyn 2, N. Y., $3.75.

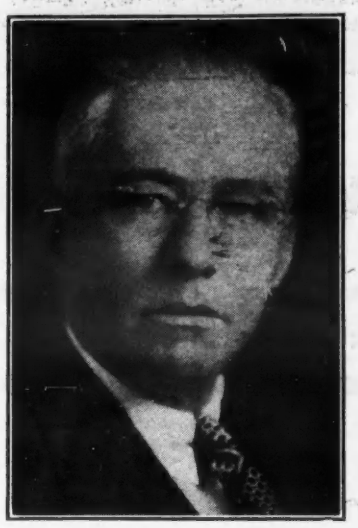
This handbook gives the necessary information on the manufacture of barrels, their proper choice, their handling and storage, when and what kind of lining to use and how to apply it to the barrel. Specifications and Interstate Commerce Commission regulations are included.

Basic Col'ege Chemistry, by Joseph A. Babor, 701 pages, 8¼ x 5½, Thomas Y. Crowell Company, New York, $3.75.

A feature of this book is the author's new periodic table possessing a number of advantages, in that the elements are arranged in an unbroken numerical sequence of atomic numbers. Each element is so placed that the number of energy levels or orbits in its atom corresponds to the period of the periodic table; all the elements in a given group belong to the same family and show analogous characteristics, and the elements following actinium—thorium, protoactinium, uranium, neptunium, and plutonium—are grouped under the rare earth elements, with which they are comparable.

Previously these elements beyond actinium were classed with the titanium, vanadium, and chormium families and any elements beyond uranium would then have had to be placed in the manganese and the platinum groups.

U.S. Potash Vice-Pres.



J. E. Barnes has been elected vice-president in charge of sales by the United States Potash Company, New York, succeeding the late J. C. Devilbiss. Mr. Barnes opened the Atlanta office of the company in 1940 and three years later was assigned to New York as sales manager. Previously, he had been southern sales manager for the F. S. Royster Guano Company for eighteen years.

Crude Oil Price Advances Analyzed

A fundamental reason for recent advances in crude oil prices is the necessity for obtaining new supplies of petroleum, A. J. McIntosh, economist for the Socony-Vacuum Oil Company, New York, told the Association of Eastern Petroleum Credit Managers at a meeting held in Pittsburgh April 16.

"This year's demand for petroleum will be higher than 1945, the peak war year," he said, "and in order to meet this demand we will have to produce our wells at a high rate. The only way to obtain more crude in the United States is to make it profitable for someone to dig for it."

Interchemical Divisions Get New Officers

Walter S. Edgar has been appointed divisional chairman of the R-B-H Dispersions and the Bound Brook divisions of the Interchemical Corporation, New York. He joined R-B-H in 1934 as sales manager and vice-president and was elected president in 1937.

The company also announced that William J. Rothemich, formerly vice-president, has been appointed divisional president of the R-B-H and Bound Brook divisions. He joined R-B-H as a member of the sales force in 1933.

A.C.S. Council Rejects Plan To Merge with Chemists Inst.

The council of the American Chemical Society, meeting last week during the annual convention in Atlantic City, N. J., rejected a proposal to merge with the American Institute of Chemists. The council voted, however,

Warren K. Lewis

for the appointment of a committee looking towards the creation of a professional division as a new unit of the society.

The membership of the society voted 9,592 to 9,276 for a bill covering permissive registration or licensing. This registration would be similar to that covered in the Ohio model bill, which seeks the registration of chemists concerned with public health work, and permits other chemists to register arbitrarily.

These were highlights of the five-day meeting, which also saw the Priestley Medal, highest honor in American chemistry, awarded to Professor Warren K. Lewis, of the Massachusetts Institute of Technology, and the $1,000 Prize in Pure Chemistry for 1947 presented to Professor Glenn T. Seaborg, of the University of California.

Dr. Charles Allen Thomas, vice-president of the Monsanto Chemical Company, St. Louis, and chairman-elect of the society, discussed the expanding use of radioisotopes, and offered a few examples of the opportunities for using nuclear reactor or radioisotopes as a source of radiation.

Glenn T. Seaborg

Intense radiation such as is available from a nuclear reactor may be used for the polymerization of organic compounds, he said. Other examples he gave were the use of radioactive materials to ionize the air near moving machinery to eliminate static, and preservation of food from bacterial decay.

Chemists of the world are organizing on an unprecedented scale to increase the contributions of their science to peace and reconstruction, Dr. Marston T. Bogert of Columbia University, president of the International Union of Chemistry, told the meeting.

With the cooperation of twenty-one nations, including Russia, activities of the Union, suspended during World

—Continued on page 38

ACS Told of Potent Synthetic Narcotic

A cousin of marihuana almost seventy times as potent as the natural narcotic has been prepared synthetically, it was announced in a paper presented by Professor Roger Adams, Scott MacKenzie, jr., Ben F. Aycock, jr., and W. S. Loewe, of the University of Illinois at the 111th national meeting of the American Chemical Society.

A series of drugs, all chemically similar to tetrahydrocannabinol, have been synthesized, it was explained, and tests on dogs have shown the drugs to be non-poisonous and capable of temporarily halting voluntary muscular action.

N.P.V.L.A. Executive Committee Meets May 2

The executive committee of the National Paint, Varnish and Lacquer Association has scheduled its next regular quarterly meeting for May 2, at the Mayflower hotel, Washington, D. C. The budget and finance committee is scheduled to meet on the previous day, May 1, at the Mayflower.

Streptomycin Tests Fund Approval Asked

OPD Washington Bureau

The senate appropriations committee was urged last week by Surgeon-General Thomas Parran to approve a $1,000,000 fund for streptomycin experiments in the specific treatment of tuberculosis. President Truman asked for the fund in a special request to Congress earlier this month.

Dr. Parran said that the experiments are needed to prove just how valuable the drug is in tuberculosis treatment, what complications it produces and what doses are required. He also urged the committee to restore a $5,500,000 cut in appropriations made by the house in the operating funds of the Public Health Service for the fiscal year beginning July 1.

Dr. Hamilton E. Hilleboe, assistant surgeon-general, told the committee that the experimental program of the PHS has been carried on in the past through donations of streptomycin by the producers. He said that they had donated about $1,000,000 worth thus far.

He said that although prices of streptomycin have been reduced sharply, it is still an expensive treatment in tuberculosis cases. The original cost of streptomycin has declined from $20 a gram to $3, but patients must be treated every four hours which runs the cost up to $10 to $12 daily.

Association Meeting Dates

Agricultural Insecticide and Fungicide Association, Westchester Country Club, Rye, N. Y., April 24-25.

American Association of Cereal Chemists, President hotel, Kansas City, Mo., May 19-23.

American Drug Manufacturers Association, Homestead, Hot Springs, Va., June 9-12; production and engineering section, Hershey Hotel, Hershey, Pa., April 24-25.

American Oil Chemists Society, New Orleans, May 20-22.

American Pharmaceutical Manufacturers Association, Boca Raton Club, Boca Raton, Fla., April 28-30.

American Plant Food Council, Homestead, Hot Springs, Va., June 13-15.

American Society for Testing Materials, Chalfonte-Haddon hotel, Atlantic City, N. J., June 16-20.

American Spice Trade Association, Astor hotel, New York, May 5-7.

American Water Works Association 1947 Conference, Auditorium, San Francisco, July 21-25.

American Zinc Institute, Statler hotel, St. Louis, April 28-29.

Association of Consulting Chemists and Chemical Engineers, Sheraton hotel, New York, April 21.

Chemical Institute of Canada, Banff Spring hotel, Banff, Alberta, June 8-10.

International Congress of Pure and Applied Chemistry, London, July 11-24.

Lead Industries Association, Waldorf-Astoria hotel, New York, May 9.

Interstate Oil Compact Commission, Birmingham, Ala., April 24-26.

Metal Powder Association, Waldorf-Astoria hotel, New York, May 27.

National Association of Insecticide and Disinfectant Manufacturers, Edgewater Beach hotel, Chicago, June 9-11.

National Association of Purchasing Agents, Waldorf-Astoria hotel, New York, June 2-4.

National Council of American Importers, Commodore hotel, New York, April 22.

National Fertilizer Association, Essex and Sussex hotel, Spring Lake, N. J., June 20-21.

National Paper Box Manufacturers Association, Traymore hotel, Atlantic City, N. J., May 18-21.

National Wholesale Druggists Association, Palmer house, Chicago, April 21-23.

Natural Gasoline Association of America, Baker hotel, Dallas, Texas, April 23-25.

Proprietary Association of America, Claridge hotel, Atlantic City, N. J., May 19-21.

Society of American Bacteriologists, Bellevue-Stratford hotel, Philadelphia, May 12-16.

Society of Cosmetic Chemists, Biltmore hotel, New York, May 13.

Society of Plastics Industry, Stevens hotel, Chicago, May 6-8.

South Atlantic Drug Club, Piedmont hotel, Atlanta, May 6-8.

Southern Drug Club, Edgewater Gulf hotel, Edgewater Park, Miss., May 8-9.

Synthetic Organic Chemical Manufacturers Association, Seaview Country Club, Absecon, N. J., May 26-28.

Toilet Goods Association, Waldorf-Astoria hotel, New York, May 14-16.

Baker now offers you

BENZENE HEXACHLORIDE

A powerful new insecticide which promises much in the agricultural field

From wartime research comes one of the most potent insecticides known—Benzene Hexachloride ($C_6H_6Cl_6$), or 1,2,3,4,5,6-hexachlorocyclohexane.

As a stomach poison, contact poison and fumigant, Benzene Hexachloride kills some insects unharmed by DDT. For certain other insects, it is more effective than DDT.

In the agricultural field Benzene Hexachloride has shown special promise for use against cotton insects—boll weevil, flea hopper, aphid, and the leafworm. An early report shows that it increased yields of seed cotton 750 pounds per acre.

Among the many insects susceptible to Benzene Hexachloride are grasshoppers, mites, chiggers, mosquitoes, flies, beetles, weevils, moths, lice and cockroaches.

Benzene Hexachloride appears at present to be relatively harmless to man and warm-blooded animals. It is chemically stable and is unaffected by continued exposure to the atmosphere. It is more volatile and less persistent than DDT.

Benzene Hexachloride can be easily formulated into dusts or pastes, liquids in suitable solvents, emulsions or "smokes."

The J. T. Baker Chemical Co. is now ready to supply limited quantities of Benzene Hexachloride for manufacturing purposes.

Write today for prices. Address the *Agricultural Chemical Division,* J. T. Baker Chemical Co., Executive Offices, Phillipsburg, N. J.

Baker's Chemicals

C. P. ANALYZED • FINE • INDUSTRIAL

Current Market Quotations Chemicals and Related Materials

April 17, 1947

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

All matters under this heading fully protected by copyright.

A

Acacia (see Gum, Arabic).

Acetaldehyde, 99%, dms., 55 gals., works..lb. .11 - .12
5 and 10 gals., works....lb. .14 - .15
tanks .....lb. .08 - .09

Acetaldol (see Aldol).

Acetamide, CP, fib. dms.....lb. .63 - .75
tech., fib. dms.....lb. .33 - .43

Acetanilide, tech., cryst., powd., bbls., c.l..lb. .19 - —
l.c.l. .....lb. .23 - —
kgs. .....lb. .25 - —
USP, cryst., powd., bbls., 2,000-lb. lots..lb. .40 - .41
smaller lots.....lb. .41 - .42

Acetic anhydride, dms., c.l., frt. alld..lb. .11½- —
l.c.l., frt. alld.....lb. .13 - —

Acetoacetanilide, bbls., dms....lb. .60 - —

Acetone, CP, dms., c.l., dlvd..lb. .08½- .10½
l.c.l., dlvd. .....lb. .09 - .11½
tanks, dlvd. .....lb. .07 - .09
Methyl (see M).

Acetonitrile, dms., c.l., works..lb. .45 - —
l.c.l., works.....lb. .50 - —
5-gal. lots, works.....lb. .55 - —
less than 5-gal. lots, works..lb. .60 - —

Acetophenetidin, USP, bbls., kgs., 1,000-lb. lots..lb. 1.00 - —
dms. .....lb. 1.08 - 1.10

Acetophenone, cns., dms.....lb. 1.50 - 1.75

Acetyl chloride, cbys., works..lb. .60 - —

Acid abietic, dms., c.l., wk..lb. .07½- —

Acetic, com'l or redist., 28%, bbls..100 lbs. 3.78 - 4.08
50%, bbls.....100 lbs. 7.56 - 7.81
70%, bbls.....100 lbs. 9.45 - 9.70
80%, bbls..... .100 lbs.10.80 -11.05
glacial, synthetic, C.P., dms., works..100 lbs.13.20 -13.75
tanks .....100 lbs. 7.62 - 7.92
tech., works.....100 lbs. 9.90 -10.20
tanks, works.....100 lbs. 7.62 - 8.12
USP, dms., works..100 lbs.11.60 -11.65
USP, 36%, cbys.....lb. .1000- .1005

Acetic acid price ranges above are for c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, special, USP, bbls., makers, primary distrib., point of shipm't, 100-lb. lots..lb. .50 - —
smaller lots.....lb. .51 - .54

standard USP, fine, cryst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis. lb. .45 - .50

Freight equaled, shipment identical quantity over standard routes, from N. Y. City, Phila., Midland, Mich., Chicago and St. Louis.

Aminoacetic, USP, cryst., powd., bbls., frt. adjusted..lb. 1.60 - 1.67

Anthranilic, resub., bbls....lb. 2.00 - 2.50
tech., bbls. .....lb. .90 - —

Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs....lb. .20 - .22

Ascorbic, USP, dms., 500-kilo lots..kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.35 - —
5-kilo lots.....kilo.25.70 - —
bots., kilo lots.....kilo.26.41 - —
500 grams.....kilo.27.47 - —

Battery, cbys., c.l., E. works.. 100 lbs. 1.60 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75

Benzoic, tech., bbls., 4,000 lbs. or more..lb. .42 - —
1,000 to 3,900 lbs.....lb. .44 - —
999 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. up..lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
999 lbs. or less.....lb. .56 - .59
dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
999 lbs. or less.....lb. .58 - .59

Betaoxynaphthoic, bbls., works. lb. .95 - —

Boric, tech., 99.5%, gran., bulk, ton.96.50 -100.00
paper bgs., c.l., frt. alld. ton.99.00 -105.00
ton lots, ex whse, N. Y. or Chi..ton.117.50 - —
less ton lots, same basis. ton.122.50 - —
bbls., c.l., frt. alld..ton.119.00 -128.50
ton lots, ex whse., N. Y. or Chi..ton.127.50 - —
less ton lots, same basis. ton.142.50 - —
cryst., powd., paper bgs., c.l., frt. alld..ton.104.00 -106.50
ton lots, ex whse. N. Y. or Chi..ton.122.50 - —
less ton lots, same basis..ton.127.50 - —
bbls., c.l., frt. alld.ton.124.00 - —
ton lots, ex whse. N. Y. or Chi..ton.142.50 - —
less car lots, same basis..ton.147.50 - —
USP $25 per ton higher.

Butyric, 99%, dms., c.l., works. lb. .29 - —
l.c.l., same basis.....lb. .30 - —

Broener's, bbls.....lb. 1.23 - —

Cacodylic, bots.....lb.19.00 -16.50

Camphoric, synthetic, cns...lb. 7.00 - 7.25

Caprylic, 99%, dms.....lb. No stocks

Capric, tech., ret. dms.....lb. No stocks

Castor oil, split, ret. dms...lb. No stocks

Acid, chlorosulphonic, dms., c.l., works..lb. .08 - —
l.c.l., works .....lb. .08½- .04½
tanks, works .....lb. .02½- —

Chromic, 99½-99¾%, dms., c.l., lb. .20 - —
l.c.l. .....lb. .20½- .21

Cinnamic, refd., bots.....lb. 3.00 - 4.00

Citric, anhyd., gran., fine gran., dms., c.l..lb. .24½- —
l.c.l., 10,000 lbs., 1 ship't. lb. .25 - —
smaller lots, bbls.....lb. .25½- —
kgs. .....lb. .26 - —

Anhydrous citric acid powder, higher. ½c. per lb.

USP, cryst., bbls., c.l.....lb. .25 - —
l.c.l., 10,000 lbs., 1 ship't. lb. .25½- —
smaller lots, bbls.....lb. .26 - —
kgs. .....lb. .26½- —
gran., fine gran., bbls., c.l. lb. .22 - —
l.c.l., 10,000 lbs., 1 ship't..lb. .22½- —
smaller lots, dms...lb. .23 - —
kgs. .....lb. .23½- —

USP citric acid powder, ½c. per lb. higher.

Cleve's, bbls. .....lb. .65 - 1.00

Coconut oil, dist., dms.....lb. .22 - .23½

Corn oil, s.d., dms., c.l., works. lb. .27½- .27½

Cottonseed oil, s.d., dms., c.l., lb. .24 - .26
tanks, dlvd. .....lb. No prices.

Cresylic dom., coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald..gal. 1.01 - 1.16
l.c.l., same basis....gal. 1.04 - 1.19
tanks .....gal. .95 - 1.10

Petroleum, heavy grade (247°-298°), dms., 20, Cal. ref..gal. .490 - —
Sewaren, N. J., ref. gal. .616 - —
1-19, Cal., ref....gal. .519 - —
Sewaren, N. J., ref. gal. .636 - —
tanks, dlvd.....gal. .563 - —
light grade (200°-246°), tanks, Cal., ref..gal. .590 - —
medium grade (220°-246°), dms., 20 Cal., ref..gal. .50 - —
Sewaren, N. J., ref. gal. .626 - —
1-10, Cal. ref....gal. .570 - —
Sewaren, N. J., ref. gal. .606 - —
tanks, dlvd.....gal. .546 - —

Crotonic, bbls., Canadian, wks. lb. .25 - —

Dichlorophenoxyacetic, fib. dms., c.l., works..lb. .90 - —
l.c.l., works .....lb. .95 - .95

Diethylbarbituric (see Barbital).

F (see Acid, monosulphonic).

Formic, 85%, cbys., c.l., wks..lb. .12 - —
l.c.l., works .....lb. .12½- .14½
90%, cbys., c.l., works....lb. .13½- —
l.c.l., works .....lb. .13 - .14½

Fumaric, tech., bbls., dms..lb. .27 - .31

Gallic, NF V, 1,000-lb. lots, bbls..lb. 1.40 - —
smaller lots.....lb. 1.43 - 1.45

technical, bbls., 1,000-lb. lots. lb. 1.23 - —
smaller lots..... ....lb. 1.26 - 1.28

Gamma, bbls.....lb. .97 - —

Gluconic, tech., 50%, bots...lb. .23 - .31
dms. .....lb. .14 - —
kgs. .....lb. .16 - —

Glycolic (see Acid, hydroxyacetic).

H, bbls., works.....lb. .50 - —

Hydriodic, 45-47%, cbys.....lb. 2.52 - 2.54
57%, cbys.....lb. 2.82 - 2.85

Hydrobromic, medicinal, 48%, cbys., dlvd. E..lb. .48 - —
tech., 48%, cbys., same basis. lb. .45 - —
34%, cbys., same basis...lb. .35 - .37

Hydrochloric (see Acid, Muriatic).

Hydrocyanic, cyls., works....lb. .80 - 1.00
NF, dilute, 2%, 5-lb. bots..lb. .30 - .40

Hydrofluoric, anhyd., cyls., wks. lb. .19 - .19½
dmjn. .....lb. .21 - .23
tanks, works.....lb. .16 - —
30%, rubber dms., works..lb. .08 - .09
48%, rubber dms., works..lb. .12 - —
52%, rubber dms., works..lb. .12½- —
60%, rubber dms., works..lb. .13½- —

Hydrofluosilicic, 30-35%, bbls.lb. .06 - .09

Hydroxyacetic, 70%, tech., bbls., non-return, Phila..lb. .084 - —
tanks, Belle, W. Va., acid basis...lb. .065 - —

Hypophosphorous, USP, dms. lb. .75 - .77

Lactic, edible, 50%, bbls., 20 or more..lb. .13565- —
smaller lots.....lb. .13513- .1451
80%, bbls., 5 or less.....lb. .24½- .24¾
plastic grade, 50%, bbls., 20 or more..lb. .14½- —
10 or less.....lb. .14¾- .15½
80%, bbls., 5 or less.....lb. .26 - .26½
tech., dark, 22%, bbls., c.l., works..100 lbs. 4.00 - 4.55
l.c.l., works.....100 lbs. 4.60 - 4.75
cbys., works.....100 lbs. 5.10 - —
44%, bbls., c.l., works..... 100 lbs. 7.75 - 8.35
l.c.l., bbls., works..... 100 lbs. 8.25 - 8.50
cbys., works.....100 lbs. 8.90 - 9.15
light, 22%, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., works.....100 lbs. 4.15 - —
cbys., works.....100 lbs. 5.15 - —
44%, bbls., c.l., works.... 100 lbs. 7.30 - —
l.c.l., works.....100 lbs. 7.55 - —
cbys., works.....100 lbs. 8.55 - —
USP XII, 80%, cbys.....lb. .54 - .57
USP VIII, 70%, cbys.....lb. .53 - .55
Laurent's, bbls.....lb. .63 - —
Lauric, dist., 95%, dms.....lb. No prices
60%, dms.....lb. .24¼- .24¾
Linseed oil, light, dms.....lb. .47¾- .48¼
Maleic, powd., dms.....lb. .30 - —
Anhydride (see M).

Acid, malic, powd., kgs.....lb. .47 - —
Mandelic, USP, dms., 1,000-lb. lots..lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.30

Mixed, tanks, nitric unit....lb. .05 - .06
sulphuric unit.....lb. .0065- .009

Molybdic, kgs., works.....lb. .95 - 1.10

Monochloracetic, tech., flakes, 96-97%, dms..lb. .17 - .18
purified, flake, 99%, dms...lb. .21 - .22½

Monosulphonic, bbls.....lb. 1.50 - —

Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - 1.70
l.c.l., E. works....100 lbs. 1.90 - 2.00
tanks, works.....ton.18.00 -18.20
20°, cbys., c.l., E. works.... 100 lbs. 1.85 - 2.00
tanks, E. works.....ton.20.00 -21.00
22°, cbys., c.l., E. works.... 100 lbs. 2.35 - 2.50
tanks, E. works.....ton.22.00 -26.00

CP, USP, consumers, cbys. extra..lb. .06 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys., extra....lb. .06½- —
6-lb. bots., extra.....lb. .08½- —

Myristic, dist., dms.....lb. No stocks

Naphthenic, 220-230 acidity, dms., extra, works..lb. .12 - —
tanks, works.....lb. .09 - —
230-240 acidity, dms., extra, works..lb. .17 - —
tanks, works.....lb. .14 - —

Neville and Winthers, dms...lb. .73 - —

Nicotinic, USP, dms., works... kilo. 7.00 - 7.30

Nicotinic amide (see Nicotinamide).

Nitric, 36°, cbys., c.l., E. works. 100 lbs. 5.00 - —
l.c.l., 25, E. works.100 lbs. 5.30 - 6.30
38°, cbys., c.l., E. works.... 100 lbs. 5.50 - —
l.c.l., works.....100 lbs. 6.00 - 6.25
40°, cbys., c.l., E. works.... 100 lbs. 6.00 - 6.50
l.c.l., works.....100 lbs. 6.50 - 7.10
42°, cbys., c.l., E. works.... 100 lbs. 6.50 - 7.00
l.c.l., works.....100 lbs. 7.00 - 7.25

CP, USP, consumers, cbys. extra..lb. .12 - —
7-lb. bots., cs., extra...lb. .15 - —
dealers, cbys. extra....lb. .11½- —
7-lb. bots., cs., extra...lb. .13½- —

Oleic (see Oil, Red).

Oleum (see Acid, sulphuric, fuming).

Oxalic, bbls., c.l., works....lb. .13 - —
10,000 lbs. .....lb. .13¼- —
smaller lots.....lb. .14 - —

Palm oil, white, dist., dms..lb. .30½- .31
Para-aminobenzoic, cns.....lb. 1.55 - —
Paranitrobenzoic, cns.....lb. .80 - —
Paratoluidinmetasulphonic, bbls., works..lb. .80 - —

Peanut oil, s.d., tanks, works. lb. No prices

Phenylacetic, bots.....lb. 1.60 - 1.75

Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald..100 lbs. 4.50 - —
l.c.l., same basis..100 lbs. 5.25 - 6.25
cbys., c.l., works, frt. equald..100 lbs. 5.00 - —
l.c.l., works, frt. alld.. 100 lbs. 6.00 - 7.50
75%, bbls., c.l., works, frt. equald..100 lbs. 5.25 - —
cbys., c.l., works, frt. equald..100 lbs. 5.00 - —
l.c.l., frt. alld....100 lbs. 7.75 - 8.75
tanks, works, frt. equald., 100 lbs. 4.65 - —
USP, 100-lb. cbys., c.l....lb. .10¾- —
10 cbys. to c.l.....lb. .11¼- —
2 to 9 cbys.....lb. .12 - —
single cbys. .....lb. .12 - —
70-lb. cbys. .....lb. .10¾- —
25 cbys. to c.l.....lb. .11¼- —
5 to 24 cbys.....lb. .12 - —
1 to 4 cbys.....lb. .13 - —
dilut., 10%, cbys., djus..lb. .07 - .07½

Picramic, bgs.....lb. .65 - .70

Picric, bbls.....lb. .29 - .31

Propionic, synth., pure, dms., workslb. .19½- —
tanks, works.....lb. .18½- —
natural, dms., works....lb. .15 - —
tanks, works.....lb. .14 - —

Pyrogallic, tech., bbls.....lb. No prices.

N.F., cryst., dms.....lb. 2.50 - 2.55
resub., dms.....lb. 2.90 - 2.95

Pyroligneous, bbls., tech., ex whse., l.c.l..gal. .41 - —

Ricinoleic, com'l split (see Acid, castor oil, split).

Salicylic, tech., bbls., c.l....lb. .31 - —
smaller lots.....lb. .33 - —
USP, bbls., c.l.....lb. .40 - —
smaller lots.....lb. .47 - —

Sebacic, tech., dms., c.l., works, lb. No stocks.

Soybean oil, s.d., dms., works, lb. .23½- .23¼
tanks, works .....lb. No prices.

Stearic, double pressed, bgs.lb. .37½- .38½
single pressed, bgs.....lb. .36 - .37
triple pressed, bgs.....lb. .40¼- .41¼

Succinic, bbls.....lb. .75 - —

Sulphanilic, CP, bots., works.lb. 1.60 - 1.62
tech., dms., works.....lb. .17 - —

Sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.35 - 1.40
l.c.l. .....100 lbs. 1.70 - 2.00
tanks, E. works.....ton.13.00 -13.50
66°, cbys., c.l., E. works.. 100 lbs. 1.55 - 1.70
tanks, E. works.....ton.16.50 -17.50
66°, tanks, works.....ton.17.50 -18.50

CP, USP, consumers cbys., extra..lb. .08 - —
5-lb. bots., cs., extra.lb. .10 - —
dealers, cbys., extra....lb. .09½- —
9-lb. bots., cs., extra..lb. .05½- —

fuming, 20%, tanks, E. works. ton.19.50 -20.50

Tannic, tech., bbls., dms...lb. .93 - .94

USP, fluffy, bbls., 1,000 lbs.. lb. 1.45 - —
smaller lots .....lb. 1.47 - 1.50
powder, bbls., 1,000 lbs.lb. 1.35 - —
smaller lots .....lb. 1.17 - —

Tartaric, USP, cryst., gran., powd., bbls., 10,000 lbs., 1 ship't..lb. .49¼- —
smaller lots, bbls..lb. .50 - —
dms. .....lb. .52 - .53
kgs. .....lb. .50¼- —

Thioglycolic, redined, bbls., cbys., basis 100%..lb. 1.95 - 2.00
tech., bbls., cbys.....lb. 1.40 - —

Tobias, bbls. .....lb. .60 - —

Trichloroacetic, bots.....lb. 2.00 - 2.50

Tungstic, CP, 100-lb. pkgs..lb. 3.10 Nom.
pure, 100-lb. kgs.....lb. 2.50 Nom.

Aconite leaves, bls.....lb. .75 - .80
Root, bls. .....lb. 1.15 - 1.20

Aconitine, amorph., mild, bots.oz.32.50 - —
cryst., potent, bots.....oz.35.00 - —

Acrylonitrile, dms., c.l., works. lb. .29½- —
l.c.l., works.....lb. .42½- —
tanks, works.....lb. .28½- —

Adeps lanae, USP, anhyd., cosmetic, dms., works.lb. .27 - .30
pharmaceutical, dms., works. lb. .25 - .27

Adonis vernalis herb, bls.....lb. .65 - .70

Agar .....lb. 2.75 - 3.00

Agaric, white, bls.....lb. 2.75 - 3.00

Agrimony herb, bls.....lb. .40 - .45

Albumen, blood, dark (see Blood, soluble).
light, dms., l.c.l.....lb. .70 - —
egg, edible, cryst., gran., bbls. lb. 1.95 - 2.00
powd., bbls. .....lb. 2.00 - 2.05
tech., cryst., bbls.....lb. 1.15 - 1.40

Alcohol, allyl, dms., c.l., dlvd.lb. .21½- —
l.c.l., dlvd. .....lb. .23 - —
tankcars, dlvd.....lb. .20 - —

Amyl ex pentane, dms., c.l., frt. alld. E. of Miss. R. lb. .161 - —
l.c.l., frt. alld.....lb. .171 - —
tanks, frt. alld.....lb. .151 - —
(see also Fusel oil, ref.).

Benzyl, cns. .....lb. .70 - .75
dms. .....lb. .95 - —

Butyl, normal, ferment, Ill., Ind. prod., dms., c.l., frt. alld..lb. .32½- —
l.c.l., frt. alld. E....lb. .33½- —
tanks, frt. alld. E....lb. .31 - —
tankwagon, frt. alld..lb. .31½- —
other production, dms., c.l., frt. alld. E..lb. .34½- —
l.c.l., frt. alld. E....lb. .35½- —
tanks, frt. alld. E....lb. .33 - —
synthetic, dms., c.l., frt. alld. E..lb. .15½- —
l.c.l., frt. alld. E....lb. .16 - —
tanks, frt. alld. E.....lb. .14½- —

Normal butyl alcohol prices in West, ½c per lb. higher.

secondary, dms., c.l., dlvd.lb. .11 - —
l.c.l., dlvd.....lb. .11½- —
tanks, dlvd.....lb. .09½- —
tertiary, denat., dms., c.l..lb. .12½- —
l.c.l., dms. .....lb. .12 - —
tanks .....lb. .11 - —

Capryl, dms., c.l., works....lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16 - —

Cetyl, dom., CP., fiber ctns., 1,000 lbs..lb. 2.25 - —
smaller lots.....lb. 2.30 - 2.55

Cinnamic, bots. .....lb. 3.00 - —

Denatured, CD14, dms., c.l., works, E..gal. 1.04½- —
l.c.l., works, E.....gal. 1.07½- 1.11½
tanks, E., dlvd.....gal. .97½- —

Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf., dms., c.l., E. works...gal. 1.05 - —
l.c.l., works, E.....gal. 1.08 - 1.12
tanks, E. works.....gal. .98 - —
Anhydrous 7c. per gal. higher.
SD2B, dms., c.l., wks., E.gal. 1.05 - —
l.c.l., works, E.....gal. 1.08 - 1.12
tanks, E., works.....gal. .98 - —
SD23H, dms., c.l.....gal. 1.03½- —
l.c.l., works, E.....gal. 1.06½- 1.10½
tanks, E. works.....gal. .96½- —
SD29, denatured, with acetaldehyde, dms., c.l., E. works, gal. 1.05 - —
l.c.l., works, E.....gal. 1.09 - 1.14
tanks, E. works.....gal. .98 - —

When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.

Special solvent, dms., c.l., works, E..gal. 1.05½- —
l.c.l., works, E.....gal. 1.08½- 1.12½
tanks, E. works.....gal. .98½- —

tankcar sales require written authorization by Alcohol Tax Unit.

Diacetone, acetone-free, dms., c.l., dlvd..lb. .13 - .15½
l.c.l., dlvd. .....lb. .13½- .16½
tanks, dlvd. .....lb. .11½- .14
tech., dms., c.l., dlvd.....lb. .14½- —
l.c.l., dlvd. .....lb. .15½- —
tanks, dlvd. .....lb. .13 - —

Ethyl, 190 pf., dms., c.l., works. gal.18.15 - —
l.c.l., works .....gal.18.19 -18.24
tanks .....gal.18.09 - —
absolute, dms., c.l., works.gal.19.12 - —
l.c.l., works .....gal.19.16 -19.21
tanks .....gal.19.05 - —

Ethylhexyl, dms., c.l., works.lb. .32 - —
l.c.l., works .....lb. .36 - —
tanks, works .....lb. .34 - —

Furfuryl, tech., cns., works.lb. .35 - —
dms., c.l., works.....lb. .32½- —
l.c.l., works .....lb. .36 - —
tanks, works .....lb. .19 - —

Isoamyl (see Carbinol, isobutyl).

Isobutyl, refd., dms., works.lb. .13 - —
tanks, works .....lb. .12 - —

Isopropyl, refd., 91%, dms., incl., c.l., dlvd..gal. .47½- —
l.c.l., dlvd. .....gal. .50½- —
tanks, dlvd. .....gal. .38 - —
99%, dms., incl., c.l., dlvd.gal. .50½- —
l.c.l., dlvd. .....gal. .53 - —
tanks, dlvd. .....gal. .40½- —

Methyl (see Methanol).

Methylamyl (see Carbinol methylisobutyl).

Octyl, perfumer's grade, bots.lb. 4.00 - 4.25

Phenylethyl, dms. .....lb. 2.50 - 2.60

Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis. lb. .60 - .68

Propyl, normal, dms., wks.gal. .82 - —
tanks, works .....gal. .75 - —

Tetrahydrofurfuryl, cns., Cedar Rapids, Ia..lb. .47 - —
dms., c.l., Waverly, N. Y..lb. .40 - —
l.c.l., same basis.....lb. .44 - —
tanks, same basis.....lb. .36 - —

Aldol, dms., works.....lb. .15 - —
denaturing grade, dms....gal. 1.30 - —

Aletris root, bgs.....lb. 2.00 - 2.25

Algarobilla, c.l., ex dock.... long-ton. No prices

Algin, bbls., fib. dms.....lb. .70 - 1.00

Alizarin (see Red, alizarin).

Alkanet, root, bgs.....lb. .55 - .60

Allspice, Mexican, futures, bgs. lb. .16½- .17

Allyl bromide, cbys., 5,000 lbs., works..lb. .09 - —
smaller lots, works.....lb. 1.05 - 1.10

Chloride, dms., c.l., dlvd....lb. .14 - —
l.c.l., dlvd. .....lb. .14½- —
tanks, dlvd.....lb. .13½- —

Aloe, Cape, cs. ..... lb. .42 - .45
Curacao, kgs. ..... lb. .42 - .43
Socotrine, kgs. ..... lb. .47 - .48
Aloin, bbls., dms., kgs. ..... lb. 4.50 - 4.80
Alphanaphthol, bbls. ..... lb. .56 - —
Alphanaphthylamine, bbls. ..... lb. .35 - —
Alphanaphthylthiourea, fib. dms., works, frt. alld. lb. 4.00 - 4.40
Alphapicoline, ret. dms., works, frt. equald. lb. .24 - .27½
Alphapinene, wks., South, tanks, gal. 1.15 - —
Alphaterpineol, dms., c.l., works, lb. .1340- —
l.c.l., works ..... lb. .1390- —
tanks, works ..... lb. .1200- —
Alphatocopherol, amp ..... kilo. 750.00 - —
Althea root, NF, peeled, bls. lb. .40 - .45
Alum, ammonia, burnt, USP, bbls., kgs. lb. .16 - .18
gran., bbls., works ..... 100 lbs. 4.00 - —
lump, bbls., works ..... 100 lbs. 4.25 - —
powd., bbls., works ..... 100 lbs. 4.40 - —
Potash, gran., bbls., works ..... 100 lbs. 4.25 - —
lump, bbls., works ..... 100 lbs. 4.50 - —
powd., bbls., works ..... 100 lbs. 4.65 - —
Potash-chrome, bbls. ..... lb. .12½ - .18
Soda, bbls., c.l., works ..... 100 lbs. 3.25 - —
l.c.l., dtd. ..... 100 lbs. 4.25 - 5.00
Alumina, classified, grade, grd., kgs., works ..... lb. .35 - .37
top grade, ground, kgs., works. lb. .60 - .67
unclassified, ground, kgs., works. lb. .10½ - .40
Acetate, basic solution, 24%, bbls., l.c.l., works ..... lb. .11 - —
20%, bbls., l.c.l., works. lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works. lb. .10 - .11
l.c.l., works ..... lb. .10¼ - —
cryst., com'l, dms., c.l., works lb. .06 - —
l.c.l., works ..... lb. .06½- .06¾
Alumina chloride, solution, 32 deg., cbys., c.l., works. lb. .02¾- —
l.c.l., works ..... lb. .03¼- —
Fluoride, tech., bbls. ..... lb. .25 - —
Formate, solution, 12-20° Be, bbls., c.l., works, f.o.b. equaled Phila. and Chi. lb. .09½- —
l.c.l., works, same basis. lb. .10 - —
Hydrate, heavy, bgs., c.l., works. lb. .024 - .031
l.c.l., works ..... lb. .035 - .040
light, bgs., dtd. ..... lb. .14½- —
bbls., dtd. ..... lb. .15 - —
Hydroxide, gel tech., min. 15% lbs. or more, f.o.b. ship't point. lb. .03 - .03½
ton lots, same basis. lb. .03¼- .03¾
smaller lots, same basis. lb. .03¾- .04
9-9½% Al_2O_3, fib. dms., works. lb. .17¾- —
contract, works ..... lb. .16¾- —
14-15% Al_2O_3, fib. dms., Al $(OH)_3$, dms., 10,000 wks. lb. .20¾- —
contract, works ..... lb. .19¾- —
dried, USP XII, fib. dms., works. lb. .78 - —
contract, works ..... lb. .75 - —
powder, tech. (see Alumina hydrate).
USP IX, bbls., dms. ..... lb. .15 - .17
Laurate, precip., bbls. ..... lb. .25 - .26
Naphthenate, 1.7% Al, 50-gal. dms., works. lb. .19 - —
Oleate, dms., contract ..... lb. .43¾- —
Resinate, precip., dms. ..... lb. .20¾- —
Stearate, dibasic, ctns, c.l. lb. .50 - —
l.c.l. ..... lb. .51 - —
monobasic, ctns., c.l. ..... lb. .50 - —
l.c.l. ..... lb. .51 - —
tribasic, ctns., c.l. ..... lb. .55 - —
less ton quantities ..... lb. .57 - —
Sulphate, com'l, bgs., c.l., works, frt. equald. 100 lbs. 1.15 - 1.30
l.c.l., works, frt. equald. 100 lbs. 1.40 - 1.50
bbls., c.l., works, frt. equald. 100 lbs. 1.55 - 1.60
l.c.l., works, frt. equald.. 100 lbs. 1.95 - 2.00
iron-free, bgs., c.l., works.. 100 lbs. 1.95 - 2.25
l.c.l., works ..... 100 lbs. 2.35 - 2.50
Trihydrate, heavy (see Alumina hydrate).
Aluminum, 98-99%, c.l. ..... lb. .15 - —
l.c.l. ..... lb. .15 - .16
paste, lining, extra fine, 200-lb. dms. lb. .56 - .60
ink, 150-lb. dms. ..... lb. .71 - —
standard, 200-lb. dms. ..... lb. .53 - —
lining, extra fine, 150-lb. dms. lb. .56 - —
litho, 150-lb. dms. ..... lb. .60 - —
standard, 200-lb. dms. lb. .62 - —
rubber comp., 200-lb. dms. lb. .42 - —
unpolished, stand., dms. lb. .38 - —
varnish, stand., 300-lb. dms., lb. .42 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 2c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,400 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 20,000 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Ambergris, gray, tins ..... oz. 8.50 -12.00
Aminoethylpropanol, cns., dms., works. lb. .50 - .60
Aminopyrine, bots., dms. ..... lb. 4.50 - 4.75
Ammonia acetate, reagent, crystals, bbls. lb. .24 - —
purified, bbls. ..... lb. .22 - —
Anhydrous, fertilizer, tankcars, works, frt. equald. ton. 99.00- —
pure, cyls., extra ..... lb. .16 - —
refrigeration, tanks, works.. ton. 61.50 - —
Aqua, dms., c.l., works ..... lb. .03 - .03½
l.c.l., works ..... lb. .03½- —
tanks, works (NH_3 content). ton. 65.00 - —
Benzoate, USP, dms., kgs., 4,000 lbs., up, frt. alld. lb. .43 - —
smaller lots, frt. alld. lb. .44 - .47
Biborate, gran., powd., bbls., c.l., works. ton. 332.00 - —
ton lots, works ..... ton. 366.50 - —
less ton lots, works ..... ton. 343.50 - —
Bicarbonate, dms., extra, c.l. lb. .06¾- —
Bichromate, bbls., works ..... lb. .26 - .30
Bifluoride, bbls. ..... lb. .15 - .15½
Bromide, gran., NF, bbls. ..... lb. .28 - —
dms. ..... lb. .29 - .32
Powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, dms. lb. .03¼- .03½
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms., kgs., lb. .13 - .15
Citrate, dibasic, bbls. ..... lb. .75 - —
dms. ..... lb. .80 - .86
Fluoride, bbls. ..... lb. No stocks
Hydroxide (see Ammonia, aqua).
Ammonia hypophosphite, NF, dms. lb. 1.25 - 1.27
Iodide, NF, jars ..... lb. 3.90 - 3.96
Linoleate, 80%, plastic, dms., works. lb. .40½- —
kgs., works ..... lb. .42½- —
Molybdate, c.p., cryst., kgs. lb. 1.26 - 1.30
fine cryst., bbls., kgs. lb. .84 - .87
purified, dms. ..... lb. 1.10 - 1.12
Nitrate, fertilizer grade, Canadian, 32.5% nitrogen, bgs., same N unit price, delivered, as Ammonia sulphate, bgs., c.l., shipping point ..... ton. 57.00 - —
bulk, same basis ..... ton. 51.00 - —
tech., bgs., works ..... 100 lbs. 4.35 - 4.50
bbls., works ..... 100 lbs. 4.55 - —
Nitrate - limestone, 20.5% N, bgs., Hopewell, Va. ton. 33.00 - —
Oleate, dms. ..... lb. .14 - —
Oxalate, fine gran., bbls. ..... lb. .23 - —
dms. ..... lb. .25 - .29
Pentaborate, gran., bbls., c.l., works. ton. 230.00 - —
ton lots, works ..... ton. 248.50 - —
less ton lots ..... ton. 273.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs. ..... lb. No stocks
Persulphate, kgs ..... lb. 25½- .28½
Phosphate, dibasic, NF V, bbls., kgs. lb. .37 - .39
tech., bgs., c.l., works. lb. .07 - —
l.c.l., works ..... lb. .07¾- —
monobasic, pure, bbls. lb. .39 - .41
tech., bgs., c.l., works. lb. .07 - —
l.c.l., works ..... lb. .07¾- .08¾
Salicylate, NF, dms. kgs. lb. 1.25 - —
Silicofluoride, bbls ..... lb. .15 - .16
Stearate, anhydrous, dms. lb. .34 - —
paste, dms. ..... lb. .06½- —
Sulphamate, bbls., dms., works. lb. .18 - .20
Sulphate, bulk, producing ovens. ton. 30.00 -32.00
Sulphide, liquid, 40-45% basis 100%, dms. c.l., works. lb. .09 - —
l.c.l., dtd ..... lb. .15 - —
tanks, dtd ..... lb. .07½- —
red, 48%, cbys., works ..... lb. .08 - —
dms., works ..... lb. .08 - —
yellow, 33%, cbys., works. lb. .08 - —
dms., works ..... lb. .06 - —
Sulphocyanide, pure, bbls. lb. .60 - .65
tech., bbls. ..... lb. .17 - .19
Thiocyanate (see Ammonia sulphocyanide).
Thioglycollate, highly purified, 100% basis, bbls. lb. 7.10 - 8.25
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bbls., c.l., works. 100 lbs. 7.00 - —
l.c.l., works ..... 100 lbs. 7.40 - —
white, gran., bbls., c.l., works. 100 lbs. 4.75 - —
l.c.l., same basis. 100 lbs. 5.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., dtd. lb. .25½- —
l.c.l., dtd ..... lb. .26½- —
tanks, dtd ..... lb. .24 - —
ex-pentane, dms., c.l., frt. alld. E. of Miss. R. lb. .22 - —
l.c.l., same basis ..... lb. .23 - —
tanks, same basis ..... lb. .21 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms. ..... lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works. lb. .07 - —
l.c.l., works ..... lb. .08 - —
tanks, works ..... lb. .06 - —
Ether, dms., c.l., works ..... lb. .095 - —
l.c.l., works ..... lb. .102 - —
tanks, works ..... lb. .085 - —
Nitrite, USP, bots. ..... lb. 1.72 - 1.95
Mercaptan, dms., works ..... lb. 1.10 - —
Salicylate, prime, cns. ..... lb. .68 - .87
cbys. ..... lb. .66 - —
Stearate, dms., works ..... lb. .42 - .45½
Anethol, com'l, dms., works. lb. .667 - .685
NF, dms. ..... lb. .82 - 1.55
Angelica dom., atropurpurea, root, bls. lb. 1.30 - 1.40
imported, natural, bls ..... lb. 2.45 - 2.55
Angostura bark, bls. ..... lb. .65 - .66
Anilin oil, dms., c.l., works, frt. alld. lb. .12 - —
l.c.l., works, frt. alld. lb. .14 - —
tanks, works, frt. alld. lb. .12 - —
Salt, dms., works ..... lb. .22 - .24
Anise, Argentine, bgs. ..... lb. .30 - .31
Chinese, Star ..... lb. .17 - .18
Cyprus, bgs. ..... lb. .30 - .31
Mexican, bgs. ..... lb. .34 - .35
Syrian, bgs. ..... lb. .32 - .34
Turkish, bgs. ..... lb. No stocks
Anisic aldehyde, dms. ..... lb. 2.30 - 2.60
cns., bots. ..... lb. 2.60 - 2.90
Annatto, paste, bxs. ..... lb. .34 - .39
seed, bgs. ..... lb. .19 - .20
Anthracene, 80-85%, bbls., works. lb. .60 - —
90%, bbls., works ..... lb. .81 - —
Anthraquinone, 99.5%, bbls. lb. .70 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys. ..... lb. .17 - —
Metal, bulk, c.l., mines ..... lb. .33 - .33½
Needle, Bolivian, brown, 67% cs. lb. No prices.
Chinese, black, 70%, cs. ..... lb. No prices.
Oxide, ceramic grade, bgs., c.l., works. lb. .26 - .27½
l.c.l., works ..... lb. .25¾- .26½
paint grade, bgs., c.l., works. lb. .27½- .31
l.c.l., works ..... lb. .28¾- .32¾
Salt, 65%, bgs., c.l., dtd. E. of Miss. River. lb. No stocks.
Sulphide, 65-70%, bbls., c.l., works. lb. .22 - —
l.c.l., works ..... lb. .24 - —
Antipyrine, bbls., kgs., ton ..... lb. 2.00 - —
smaller lots ..... lb. 2.10 - 2.20
Apomorphine, bots. ..... oz. 23.20 -23.70
Archil extract, bbls. ..... lb. No stocks
Areca nuts, powd., bbls. ..... lb. .25 - .26
Arecoline hydrobromide, bots. oz. 6.10 - 7.10
Argols, min. 70%, bgs., shipment ports, 100 kilos (100% purity). 35.00 -36.00
Arnica flowers, bbls. ..... lb. 1.00 Nom.
Arrowroot, powd., bgs., bbls. lb. .14 - .15
Arsenic, chloride (arsenous), bots. lb. 1.55 - —
Metal, lump, c.l. ..... lb. No prices
Sulphide, yellow, bbls. ..... lb. No stocks
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l. ..... lb. .06 - —
l.c.l. ..... lb. .07 - .08
Asafetida, cs. ..... lb. .65 - .70
powd., bbls., dms. ..... lb. .72 - .77
Asbestine (see Talc, N. Y., fibrous).
Asbestos, fiber, 5D and 5K, bgs., c.l. (20 tons), Cana. mines. ton. 65.00 - —
5R, bgs., c.l. (20 tons), same basis. ton. 58.00 - —
6D, bgs., c.l. (30 tons), same basis. ton. 43.00 - —
7D, bgs., c.l., same basis. ton. 38.50 - —
7F, bgs., c.l., same basis. ton. 26.50 - —
7K, bgs., c.l., same basis. ton. 26.00 - —
7M, bgs., c.l., same basis. ton. 22.50 - —
7R, bgs., c.l., same basis. ton. 21.50 - —
Barbados, Dunellen, N. J. ..... lb. .10¼- —
California, dms., c.l. ..... ton. 36.40 - —
l.c.l. ..... ton. 41.40 - —
Asphaltum, Cuban, A, bulk, c.l. ton. 60.00 - —
l.c.l. ..... ton. 90.00 - —
B, bulk, c.l. ..... ton. 38.50 - —
l.c.l. ..... ton. 85.00 - —
Egyptian ..... ton. No stocks
Asphaltum, gilsonite, brilliant, black, selects, 340° F fusing point, bgs., mines. ton. 30.00 -32.00
270-295° fusing point, bgs., mines. ton. 30.50 - —
seconds, 300-350° F fusing point, not uniform, bgs., mines. ton. 25.50 - —
jet, bgs., ton lots, gross weight, Colo. mines. ton. 30.50 - —
Manjak, No. 10, crude, dms., works. lb. .05½- .12
process, form, bgs., works. lb. .05¾- .12
jet, bgs., 2,000 lbs., gross weight, Colo. mines. ton. 30.50 - —
Mexican, refd., dms., f.o.b. Tampico, Mex. metric ton. 27.50 - —
South American, refd., dms., c.l., N. J. Refy. ton. 22.00 -23.00
l.c.l., same basis. ton. 24.00 -25.00
tanks, same basis ..... ton. 15.00 - —
Atropine, bots. ..... oz. 10.65 - —
Sulphate, bots. ..... oz. 8.75 - —

B

Balm of Gilead buds, bgs. ..... lb. 2.25 - 2.50
Barbasco root (see Cube root).
Barberry, root bark, bgs ..... lb. .78 - .84
Barbital, dms ..... lb. 3.50 - 3.60
sodium, dms. ..... lb. 3.75 - 3.85
Barium carbonate, natural, 90% through 200 mesh, bgs., c.l., works. ton. — - —
precip., bgs., 10 tons and up, works. ton. 67.50 -75.00
small lots, works ..... ton. 74.50 -82.00
Chlorate, kgs., works ..... lb. .27½- .31
Chloride, CP, cryst., bbls. ..... lb. .25 - .27
pure, bbls., kgs. ..... lb. .10 - .12
tech., cryst., bgs., c.l., works. ton. 80.00 - —
l.c.l., works ..... ton. 90.00 - —
Dioxide, c.l., dms., works ..... lb. .10 - —
l.c.l., works ..... lb. .12 - .13
Fluoride, bbls. ..... lb. .14 - —
Hydrate, crystals, bbls. ..... lb. .06½- .07½
Hydroxide, bbls., works ..... lb. .15 - .16
Iodide, bots. ..... lb. 5.12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works ..... lb. .09¼- .11¼
l.c.l., works ..... lb. .10 - .11¼
Oxide, dms., c.l., works ..... lb. .11¼- .13
l.c.l., works ..... lb. .14 - .15
grd., dms., l.c.l., works ..... lb. .15 - .17
Peroxide (see Dioxide).
Silicofluoride, bbls. ..... lb. .17 - .19
Stearate, ctns., 1 ton up ..... lb. .50 - —
smaller lots ..... lb. .51 - —
Sulphate, etch. (see Barytes, and Blanc fixe).
X-ray, bbls. ..... lb. .10 - .10¼
kgs. ..... lb. .12¾- —
Sulphide, dms., works ..... ton. 45.50 -64.00
Barytes, water-grd., paper bgs., c.l., St. Louis. ton. 31.10 - —
l.c.l., same basis ..... ton. 32.10 - —
ex whse., N. Y. ..... ton. 41.95 - —
Southern, off-color, bgs., mines. ton. 19.00 - —
95.75%, bgs., mines ..... ton. 20.00 - —
Ore., approx. 94% $BaSo_4$, bulk, mines. ton. 8.50 -12.50
Bay leaves (see Laurel leaves).
Barberry bark, bgs. ..... lb. .12 - .13
Belladonna leaves, bls. ..... lb. 2.10 Nom.
Root, bls. ..... lb. 1.50 Nom.
Bauxite, bulk, mines ..... ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works. ton. 40.00 - —
Benzaldehyde, NF, dms. ..... lb. .68 - .80
tech., cbys., dms. ..... lb. .45 - .55
Benzene (see Benzol)
Benzidin base, bbls. ..... lb. .77 - —
Benzocaine, cns. ..... lb. 3.50 - 3.85
Benzol (benzene), pure, nitration and 90%, dms., works, frt. alld. up to 2c. gal. tanks, E. of Omaha, same basis. gal. .19 - —
W. Coast, Minnequa, Colo., same basis. gal. .19 - —
Benzophenone, dms. ..... lb. 1.10 - 1.28
Benzoyl chloride, cbys. ..... lb. .25 - .28
Peroxide, pure, gran., fib. ctns., works. lb. .90 - 1.05
Benzyl acetate, f.f.c., cns. ..... lb. .75 - —
dms. ..... lb. .60 - .65
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms. ..... lb. 1.00 - 1.15
Chloride, tech., cbys., works, frt. equald. lb. .20½- —
refined, cbys. ..... lb. .22 - —
Cinnamate, cns. ..... lb. 3.85 - 4.00
Formate, cns. ..... lb. 1.95 - 3.50
Propionate, bots. ..... lb. 1.80 - 2.00
Salicylate, bots. ..... lb. 1.80 - 2.25
Benzylidinacetone, bots. ..... lb. 2.00 - 2.25
Benzylisoeugenol, bots. ..... lb. 9.50 - —
Berberine bisulphate, cns. ..... lb. No stocks
Hydrochloride, bots. ..... lb. No stocks
Sulphate, cns. ..... lb. No stocks
Berberis root, bls. ..... lb. .30 - .35
Betanaphthol, resublimed, dms., works. lb. .55 - .60
tech., bbls., c.l., works ..... lb. .23 - .25
l.c.l., works ..... lb. .26 - .28
Benzoate, fib. dms., works ..... lb. 1.75 - —
Salicylate, dms. ..... lb. 5.00 - —
Betanaphthylamine, tech., works. lb. .59 - —
Betagammapicoline, dms., c.l., works. lb. .24½- —
l.c.l., works ..... lb. .25 - —
Betapicoline, 90%, ret. dms., c.l., works. lb. 1.60 - —
l.c.l., works ..... lb. 1.85 - —
95%, dms., works ..... lb. 2.05 - —
98-99%, works ..... lb. 2.20 - —
Beth root, bls. ..... lb. .55 - .60
Bismuth chloride, jars ..... lb. 4.50 - —
Citrate, USP VIII, jars ..... lb. 3.12 - —
Hydroxide, bots., dms ..... lb. 4.00 - —
Metal, ton lots ..... lb. 2.00 - —
Nitrate, cryst., cns ..... lb. 1.60 - —
Oxychloride, cns., bots., dms. lb. 3.80 - —
Oxide, anhydrous, bots., dms. lb. 4.20 - 4.31
Subcarbonate, USP, dms ..... lb. 2.60 - 2.63
Subgallate, NF, fib. dms ..... lb. 2.45 - 2.48
Subiodide, fib. dms ..... lb. 4.13 - —
Subnitrate, USP, powd., dms. lb. 2.15 - 2.18
Subsalicylate, USP, dms ..... lb. 3.06 - —
Sulphocarbolate, fib. dms ..... lb. 4.06 - —
Bismuth-ammonia citrate, USP, powd., dms. lb. 3.70 - —
Black, acetylene, bgs., c.l., works. lb. .14 - —
l.c.l., works ..... lb. .18 - —
Bone, 1A, bgs., bbls., c.l., frt. alld. dest. lb. .21 - —
1, bgs., bbls., c.l., same basis. lb. .19 - —
2, bgs., bbls., c.l., same basis. lb. .17½- —
3 bgs., bbls., c.l., same basis. lb. .16½- —
4, bgs., bbls., c.l., same basis. lb. .15½- —
5, bgs., bbls., c.l., same basis. lb. .13 - —
6, bgs., bbls., c.l., same basis. lb. .13 - —
7, bgs., bbls., c.l., same basis. lb. .16 - —
Black, bone, 8, bgs., bbls., c.l., same basis. lb. .17 - —
457, bgs., bbls., c.l., same basis. lb. .13¼- —
490A, bgs., bbls., c.l., same basis. lb. .10 - —

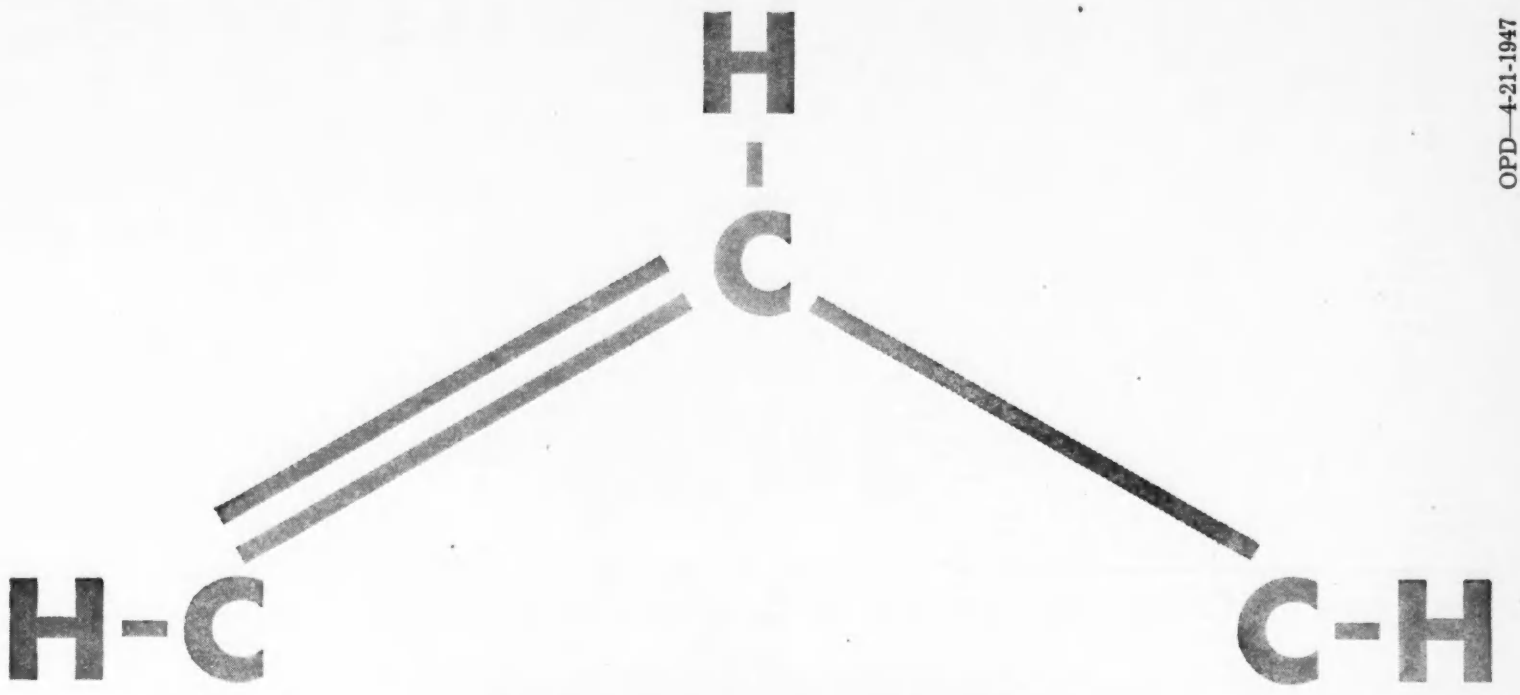
Bone black, l.c.l. prices are ¼c. higher than c.l. Pacific coast, ex dock, or whse., prices are 1¼c. higher.

Carbon, channel, compressed, beads, bulk, c.l., works. lb. .06 - —
bgs., c.l., works ..... lb. .0662- —
l.c.l., works ..... lb. .07 - —
dtd. or whse ..... lb. .102 - —
uncompressed, regular, bgs., c.l., works. lb. .074 - —
bgs., ctns., l.c.l., dtd. or whse. lb. .11¾- —
furnace, HMF, bgs., c.l., works. lb. .05 - —
ctns., l.c.l., whse ..... lb. .09 - —
SRF, bgs., c.l., works ..... lb. .06¼- —
ctns., l.c.l., whse ..... lb. .078 - —
Thermotonic, bgs., c.l., works, La. lb. .04 - —
l.c.l., whse. Trenton, N. J., lb. .06¼- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, pure, bgs., l.c.l., works. lb. .09¼- —
Lamp, 1, ctns., c.l., works. lb. .08¼- —
l.c.l., works ..... lb. .09 - —
2, ctns., c.l., works ..... lb. .10 - —
l.c.l., works ..... lb. .11 - —
2A, ctns., c.l., works ..... lb. .12 - —
l.c.l., works ..... lb. .13¼- —
3, ctns., c.l., works ..... lb. .14¼- —
l.c.l., works ..... lb. .15¼- —
4, ctns., c.l., works ..... lb. .16¼- —
l.c.l., works ..... lb. .17¼- —
5, ctns., c.l., works ..... lb. .20 - —
l.c.l., works ..... lb. .20 - —
6, ctns., c.l., works ..... lb. .25¼- —
l.c.l., works ..... lb. .27¼- —
7, ctns., c.l., works ..... lb. .37¼- —
l.c.l., works ..... lb. .85¼- —
Mineral, vine type, bgs., l.c.l., works. lb. .03 - —
Vine A, bgs ..... lb. .03¾- .04
B, bgs. ..... lb. .05¾- .06
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw, root bark, bls. ..... lb. .30 - .32
Tree bark, bls. ..... lb. .35 - .42
Black Indian hemp root, bls. lb. .55 - .60
Blanc fixe, dry, by-product, bgs., c.l., works. ton. 67.50 - —
l.c.l., works ..... ton. 72.50 - —
direct process, bgs., c.l., works. ton. 77.50 - —
l.c.l., works ..... ton. 82.50 - —
N. Y. whse ..... ton. 90.00 - —
bbls., c.l., works ..... ton. 82.50 - —
l.c.l., works ..... ton. 87.50 - —
N. Y. whse ..... ton. 100.00 - —
soluble, bgs., l.c.l. ..... lb. .17 - —
pulp, 66%, bbls., c.l., works. ton. 58.00 - —
l.c.l., same basis ..... ton. 60.00 - —
Bleaching powder, dms., c.l., works. 100 lbs. 2.75 - 3.00
l.c.l., works ..... 100 lbs. 3.25 - 3.75
bbls., c.l., works ..... 100 lbs. 3.25 - —
l.c.l., works ..... 100 lbs. 3.75 - —
Blood, dried, 16-16½% ammo., bgs. unit-ton. 9.25 - —
high-grade, unground, 16-17% ammon., bulk, Chicago. unit-ton. 9.25 - —
soluble, bgs., l.c.l. ..... lb. .17 - —
Bloodroot, bls. ..... lb. .65 - .70
Blue, alkali, dry, bbls., dtd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.90 - —
toner bbls., same basis ..... lb. 1.10 - —
Celestial, bbls., same basis ..... lb. .15 - .18
Chinese, bbls., same basis ..... lb. .36 - .42
Cobalt, genuine, bbls., same basis. lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper, phthalocyanin, full strength, bbls., same basis. lb. 3.50 - 3.75
80%, bbls., same basis ..... lb. 3.00 - —
green shade, bbls., same basis. lb. 4.50 - 4.90
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Milori, bbls., same basis ..... lb. .42 - —
Molybdated, Victoria, bbls., same basis ..... lb. 3.15 - —
Peacock, fugitive, 100% color strength, same basis. lb. .82 - —
permanent toner, green shade, molybdic, bbls., same basis. lb. 3.50 - —
tungstic ..... lb. 4.00 - —
Potash, CP, bbls., same basis. lb. .43 - —
Prussian, bbls., same basis ..... lb. .42 - —
soluble, bbls., same basis. lb. .42 - —
Soda, CP, bronze, bbls., same basis ..... lb. .39 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis. lb. .34 - .38
jobbing type, dry, bbls., same basis ..... lb. .13 - .14
regular types, dry or pulp, bbls., same basis. lb. .18 - .19
Victoria, toner, molybdic, bbls. lb. 3.15 - —
tungstic, bbls. ..... lb. 3.30 - 3.55
ink toner, bbls., same basis. lb. 1.85 - —
synthetic vehicle, bbls., same basis. lb. 1.90 - —
Violet toner, molybdic, bbls., same basis. lb. 1.24 - —
tungstic, kgs., same basis. lb. 2.10 - —

Blue dry colors, dtd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.); Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher, Pac. Coast; Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.

Blue dyes are listed under Dyes.

Blue mass, NF, cns., tubs ..... lb. 1.47 - 1.49
powd., bots., cns., dms ..... lb. 1.50 - 1.52
Bluefing, root, bls. ..... lb. No stocks.
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls. ..... lb. .11 - .12
Bone, raw bulk, Chicago ..... ton. 75.00 - —
junk, bulk, same basis ..... ton. 50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works. ton. 65.00 - —
Chicago, works ..... ton. 75.00 - —
steamed, feeding grade, 1% ammon., 60% phos. kgs., E. works. ton. 70.00 - —
Chicago, works ..... ton. 75.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works. ton. 60.00 - —
Chicago, works ..... ton. 60.00 - —
Phosphate, defluorinated (see D.).
Precipitated (see Calcium phosphate tribasic precip.).
Boneset leaves, bls. ..... lb. .17 - .18
Borage flowers, bls. ..... lb. .60 - .62



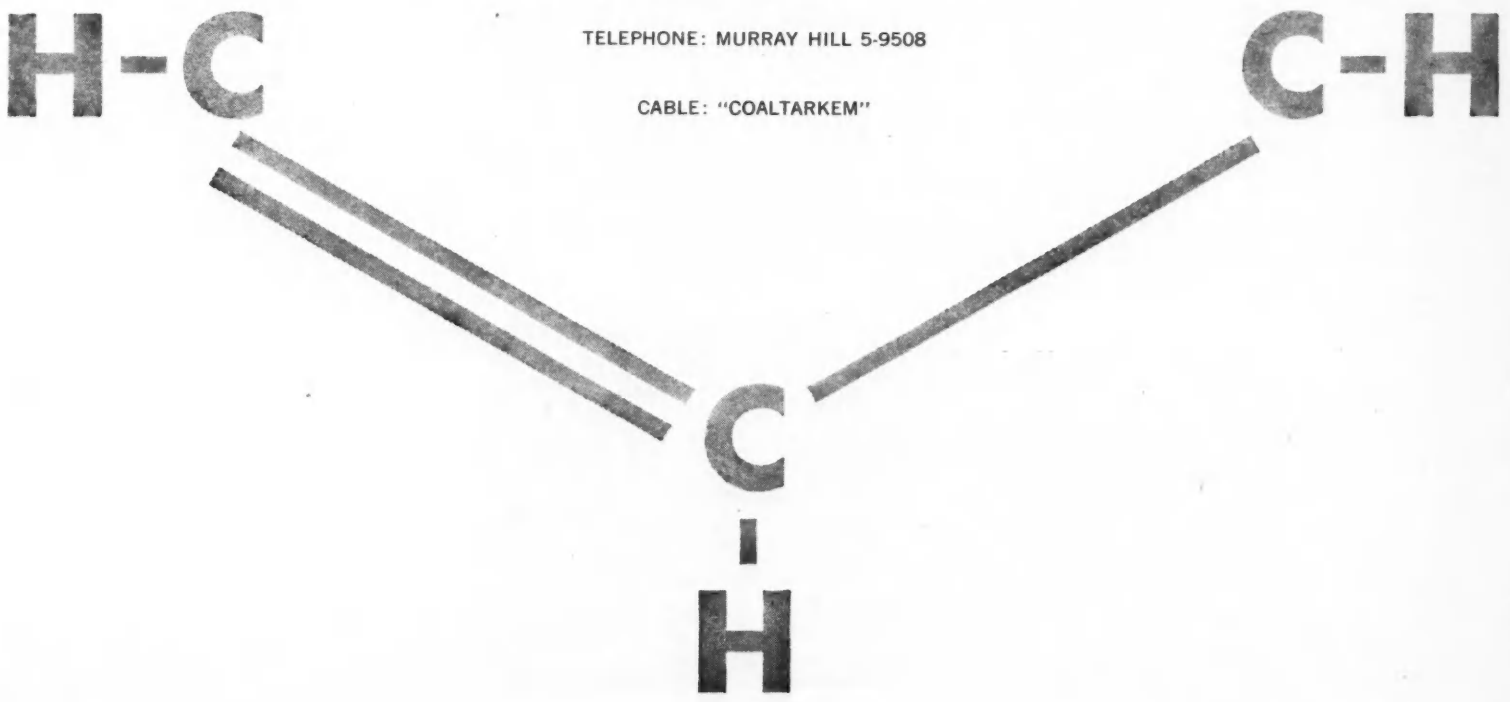
COALTAR CHEMICALS CORPORATION

William D. Neuberg, President

GRAYBAR BLDG., 420 LEXINGTON AVE., NEW YORK 17, N. Y.

TELEPHONE: MURRAY HILL 5-9508

CABLE: "COALTARKEM"

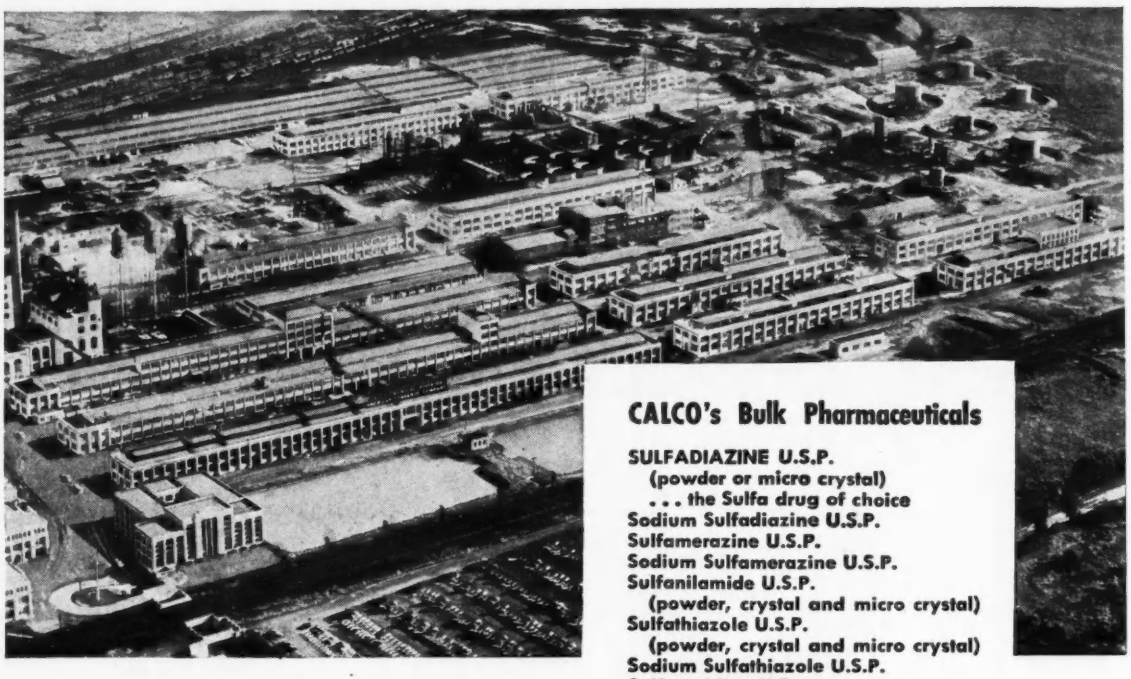


Borax, tech., 99½% fine gran., bulk, works..ton.44.50 -47.50
paper bgs., c.l., works, frt. alld..ton.48.50 -51.00
ton lots, ex whse. N. Y. or Chi..ton.66.00 - —
less ton lots, same basis. ton.71.00 - —
bbls., c.l., frt. alld....ton.68.50 - —
ton lots, ex whse., N. Y. or Chi..ton.86.00 - —
less ton lots, same basis. ton.91.00 - —
coarse gran., cryst., paper bgs., c.l., works, frt. alld..ton.53.50 -56.00
ton lots, ex whse. N. Y. or Chi..ton.71.00 - —
less carlots, same basis. ton.76.00 - —
bbls., c.l., works, frt. alld..ton.73.50 - —
ton lots, ex whse. N. Y. or Chi..ton.91.00 - —
less carlots, same basis. ton.96.00 - —
USP, $15 per ton higher.
Bordeaux mixt., bgs., c.l., whse., works, frt. alld..lb. .15 - .21
l.c.l., same basis.....lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., frt. alld. E. of Rockies..lb. .23 - —
single pkgs., same basis..lb. .28 - —
Brazilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - 1.70
cbys. .....lb. 1.42 - —
Bromstyrol .....lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., 100-lb. cans., dms., works..lb. .50 - .60
gold, moulding, 100-lb. cans, dms., same basis..lb. .80 - 1.00
printing ink, 100-lb. cns., dms., same basis..lb. .95 - 1.10
radiator, 100-lb. cns., dms., same basis..lb. .60 - .65
Broomtop, bls. .....lb. .29 - .30
Brown, iron-oxide, pure, precip., cks., works..lb. .10½- .12
Metallic, bgs., c.l., works.lb. .02½- .03¾
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, American, bbls., works..lb. .06½- .08
pap. bgs., l.c.l., same basis..lb. .04 - .04½
Italian type, bbls., works. lb. .06¾- .09¾
raw, American, bgs., l.c.l., works..lb. .04¾- .05
Italian type, bbls., works. lb. .08 - .10
Umber, burnt, American, bbls., works..lb. .06¼- —
Italian-type, bbls., works.lb. .04¾- —
Turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa.; N. Y..lb. .06 - .06½
St. Louis, Chicago, Indianapolis, New Orleans..lb. .06¼- —
Minneapolis .....lb. .0660- —
Pittsburgh .....lb. .06¾- —
Los Angeles.....lb. .07½- —
Portland, San Francisco, Seattle..lb. .06¾- —
ex whse., Los Angeles. lb. .07½- —
Portland, San Francisco, Seattle..lb. .07 - —
Vandyke, reg., bbls., works.lb. .10 - .11
special, bbls., works.....lb. .12 - —
Brucine, cns., 100 ozs.....oz. .40 - .50
Sulphate, cns., 100 ozs.....oz. .40 - .45
Bryonia root, bls.....lb. .45 - .50
Buchu leaves, bls.....lb. 1.10 1.15
Buckthorn bark, bls.....lb. .34 - .35
cut and sifted, bbls.....lb. .45 - .46
Berries, bgs.....lb. 1.00 - 1.10
Burdock root, bls.....lb. .57 - .65
Burgundy pitch, dom., dms., incl., wks., South..100 lbs.10.46 -11.10
Butane, indust., tanks, Group 3. gal. .03¼- —
Butyl acetate, normal, ferment. fil., Ind., prod., dms., c.l., frt. alld. E. of Miss. R..lb. .32½- —
l.c.l., same basis..lb. .33½- —
tanks, same basis...lb. .31 - —
tankwagon, same basis. lb. .31½- —
other production, dms., c.l., same basis..lb. .34½- —
l.c.l., same basis..lb. .35½- —
tanks, same basis....lb. .33 - —
synthetic, dms., c.l., same basis..lb. .15½- —
l.c.l., same basis..lb. .16 - —
tanks, same basis...lb. .14½- —
secondary, dms., c.l., divd. E. of Miss. R..lb. .1210- —
l.c.l., same basis.....lb. .1260- —
tanks, same basis.....lb. .1150- —
Normal butyl acetate, W. of Miss. R., ½c. per lb. higher.
Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ether (see Ether, butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies..lb. .41¼- —
l.c.l., same basis.....lb. .42½- —
tanks, same basis.....lb. .40 - —
Laurate, dms., works.....lb. .42 - —
Myristate, dms., works.....lb. No prices
Butyl oleate, ref., dms., l.c.l., works..lb. .35 - —
tech., dms., c.l., works....lb. .24 - —
l.c.l., works.....lb. .24½- .25½
Phenylacetate, dms.....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., divd.....lb. No stocks
tanks, divd. .....lb. No stocks
Stearate, dms., l.c.l., frt. alld. E. of Rockies..lb. .47½- —
Butyric ether, bots.....lb. 6.50 - 6.90
cns., works.....lb. .65 - .70
dms., works.....lb. .60 - —

C

Cadmium bromide, jars.....lb. 1.66 - 1.91
Iodide, cns.....lb. 4.49 - 4.64
Lithopone (see Yellow).
Metal, ingots or sticks, divd.. lb. 1.75 - 1.80
pat. shapes, cs., divd.....lb. 1.75 - 1.80
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, dms., 100 lbs. or more. lb. 3.75 - 7.00
anhydrous, dms., 100 lbs. or more..lb. 4.00 - —
Citrated, dms., 100 lbs. or more. lb. 2.50 - —
Hydrobromide, bots.....lb. 5.91 - 5.99
Calabar beans, bgs., futures..lb. .65 - .66
Calamus root, natural, dom., bls. lb. .40 - .45
imported, bleached, bls..lb. .70 - .80
Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works..gram. 4.00 - —
1,000 to 10,000 s.u., works. gram. 4.40 - —
less than 1,000 s.u., works. gram. 4.80 - —
Calciferol, in edible oil, dms., 10,000 or more, s.u., works. unit. .10 - —
1,000 to 10,000 s.u., works. unit. .11 - —
less than 1,000 s.u., works. unit. .12 - —
Calcium acetate, bgs., divd.. 100 lbs. 3.00 - 4.00
Arsenate, dealers, dms., c.l., whse., wks., frt. alld..lb. .09½- —
l.c.l., 96 lbs. or more....lb. .10½- .11½
Bromide, N.F., jars.....lb. .70 - —
Carbide, dms., c.l., works, ton.50.00 - —
divd. .....ton.87.00 -90.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars..lb. .28 - .30
flake, 77-80%, paper bgs., c.l., divd..ton.21.50 -23.00
l.c.l., divd. .....ton.31.50 -45.00
liquor, basis 40%, tanks, works..ton. 8.50 - —
solid, 73-75%, dms., c.l., divd. ton.21.00 -27.50
l.c.l., divd. .....ton.31.00 -54.15
Calcium chloride prices vary according to zone; minimum prices are for spot delivery. C.l. prices for flake in burlap bgs., $2.50 per ton higher; dms., $3.50 per ton higher.
Cyanide, dms., delivered E. of Rockies..lb. .25 - .40
Gluconate, USP, bbls.....lb. .58 - .65
cns. .....lb. .76 - .83
Calcium, gluconate, AA grade, 7c. per lb. higher.
Hydride, dms., works.....lb. .90 - —
Glycerophosphate, N.F., dms..lb. 1.90 —
Hypochlorite, 100-lb. dms., divd. E. of Rockies..dm.24.00 -28.50
cans, 45-lb. cases, same basis. cs.19.75 -21.50
Iodide, jars.....lb. 4.12 - —
Lactate, USP, powd., dms...lb. .40 - .50
Laurate, bbls. .....lb. .26 - .30
Mandelate, USP, dense, fluffy, works, dms..lb. 2.05 - 2.30
Naphthenate, 5% Ca, 50-gal. dms..lb. .27 - —
Pantothenate, dex., 100-gram. bots, works..per gram. .10 - .13
Phosphate, feeding grade, bgs., works..ton.75.00 - —
food grade, bbls., 10 or over, works..lb. .07 - .07¾
less than 10, works.....lb. .06 - .10
medicinal, dibasic, bgs..... 100 lbs.11.40 -18.00
monobasic, cryst., bgs., c.l., works, frt. equald..lb. .05¾- —
l.c.l., frt. equald.....lb. .06 - .06½
tribasic, bbls., c.l., works..lb. .0635- —
bgs., l.c.l., works.....lb. .0645- .0690
Phytate, bgs., works.....lb. .16 - .17
Resinate, precip., 5.8% Ca, 100-lb. dms..lb. .20 - —
Silicate, hydrated, c.l., bgs., works..lb. .05½- —
l.c.l., works.....lb. .06 - —
Stearate, precip., ctns., 2,000 lbs. to c.l., works..lb. .52 - —
l.c.l., works.....lb. .53 - —
Sulphate (see Gypsum).
Sulphide, 70%, bgs., c.l., works. ton.45.00 - —
80%, bgs., c.l., works...ton.50.00 - —
luminous, tins, works.....lb. 1.25 - —
Sulphocarbolate, bbls., dms..lb. .49 - .54
Calcium-strontium sulphide, phosphorescent, dms., works..lb. 1.06 - 1.50
fine particle size, works. lb. 1.50 - 1.75
Calendula flowers, bls.....lb. 1.10 - 1.15
Calomel, USP, dms.....lb. 2.10 - 2.11
fine powd., dms.....lb. 2.25 - 2.26
Camphor, monobromated, dms.lb. 3.20 - —
Camphor, natural.....lb. No stocks
synth., tech., bbls., contract, 2,000 lbs. or more, works..lb. .50 - —
10 bbls. (1,500 lbs.)....lb. .52½- —
5 to 9 bbls.....lb. .53 - —
1 to 4 bbls.....lb. .54 - —
smaller lots.....lb. .56 - .63
USP, gran., powd., bbls., 2,000-lb. lots..lb. .77 - —
1,000-lb. lots.....lb. .78 - —
smaller lots.....lb. .79 - —
tablets, 2,000-lb. lots....lb. .90 - —
1,000-lb. lots.....lb. .91 - —
Canada balsam (see Fir balsam).
Cantharides, Russian, bgs....lb. 7.50 Nom.
Chinese, cs.....lb. 5.45 - 5.75
powd., bxs.....lb. 5.70 - 6.00
Capsicum (see Pepper, red).
Capsicum oleoresin, USP VII, cns..lb. 4.50 - 4.65
Caramel coloring, bbls.....gal. .70 - 1.10
Caraway seed, California, Dutch type..lb. .25½- .26
Danish, bgs.....lb. .25½- .26
Dutch, bgs.....lb. .25¾- .26¼
futures, bgs.....lb. .26 - .26¾
Carbazole, 97%, dms., ton lots, works..lb. 1.10 - —
smaller lots, works.....lb. 1.20 - —
Carbinol, butyl, norm. dms., l.c.l., works..lb. .42 - —
secondary, dms., l.c.l., works, lb. .70 - —
Isobutyl, dms., c.l., works.lb. .51 - —
l.c.l., works.....lb. .52 - —
tanks, works.....lb. .50 - —

Look to CALCO for your supply of Calcium Pantothenate



Calcium Pantothenate (Calco) is the calcium salt of dextrorotatory Pantothenic Acid. This latter compound is identical with one of the natural components of the Vitamin B Complex and it is twice as potent as the racemic (dl) form. This is an important factor where there is a limit as to size of the capsule or tablet.

Pantothenic Acid is essential for chicks for the prevention of dermatitis and for rats and other animals for the prevention of certain dermatitis symptoms.

Although the role of Pantothenic Acid in human nutrition is not yet established, Calcium Pantothenate is widely used as a component of, and a supplement to, Vitamin B Complex preparations both for human and animal diets.

★ *Precise and complete analytical control*

★ *Technical bulletins available*

★ *A technical service ready to assist in application problems.*

Represented in Canada by Calco Chemical Division
North American Cyanamid, Limited
P. O. Box 10, St. Lambert, Montreal 23, P. Q.
Royal Bank Bldg., Toronto 1, Ontario

CALCO's Bulk Pharmaceuticals

SULFADIAZINE U.S.P.
(powder or micro crystal)
. . . the Sulfa drug of choice
Sodium Sulfadiazine U.S.P.
Sulfamerazine U.S.P.
Sodium Sulfamerazine U.S.P.
Sulfanilamide U.S.P.
(powder, crystal and micro crystal)
Sulfathiazole U.S.P.
(powder, crystal and micro crystal)
Sodium Sulfathiazole U.S.P.
Sulfapyridine N.F.
Sodium Sulfapyridine
Aminoacetic Acid N.F.
Calcium Pantothenate (Dextro)
Choline Chloride
Choline Dihydrogen Citrate
Cinchophen N.F.
(and Sodium Salt)
Neocinchophen U.S.P.
Mandelic Acid N.F.
Calcium Mandelate U.S.P.
Menadione U.S.P.
Methylene Blue U.S.P.
(powder or crystals)
Nicotinic Acid U.S.P.
Nicotinamide U.S.P.
Saligenin
Thiouracil
Phenothiazine N.F.
(Regular and Drench grades for Veterinary use)
Certified Colors for Pharmaceutical and Cosmetic Use

Pharmaceutical Department

Calco

REG. U. S. PAT. OFF.

CALCO CHEMICAL DIVISION
AMERICAN CYANAMID COMPANY
Bound Brook, New Jersey

Carbinol methylisobutyl, dms., c.l., nearest delivery point, buyer's works..lb. .14½- —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —

Carbon bisulphide, 50-gal. dms., c.l., frt. alld. E. of Miss. R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05½- —
5-gal. dms., c.l., same basis. lb. .07 - .07½
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls. .....lb. .04 - .08
Tetrachloride, c.p., dms., c.l., lb. .09 - —
l.c.l. .....lb. .09½- —
tech., Zone 1, 52½-gal. dms., c.l., frt. alld..lb. .06½- —
l.c.l., frt. alld.....lb. .07 - —
Zone 2, 52½-gal. dms., c.l., frt. alld....lb. .07 - —
l.c.l., frt. alld.....lb. .07½- —
Zone 3, 52½-gal. dms., c.l., frt. alld..lb. .07½- —
l.c.l., frt. alld.....lb. .08 - —
Zone 4, 52½-gal. dms., c.l., lb. .07 - —
l.c.l., frt. alld.....lb. .07½- —
USP, cbys. .....lb. .17 - .19

Carbon tetrachloride prices are frt. alld. with the exception of Zone 4, where prices are f.o.b. cars L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings.

Cardamom, bleached, bold, cs. lb. 1.55 - 1.60
medium, cs. .....lb. 1.45 - 1.50
decorticated, Guatemala, cs..lb. 1.30 - 1.35
India, cs. .....lb. 1.28 - 1.30
green, Alleppey, bgs.....lb. 1.10 - 1.15

Carotene, cryst., 1,350,000 A units per gm., tins, works, 1,000,000 units. .50 - —
research grade (alpha, 10%, beta, 90%), ampe., 100 grams, dlvd., gram. 2.85 - —
50 grams, dlvd.....gram. 2.90 - —
in vegetable oil, 250,000 USP units per gm., bots., works, lb.37.50 - —
50,000 USP units per gm., bots., works..lb. 8.43 - —
dms., works .....lb. 7.68 - —
3,000 A units per gm., tins, works, 1,000,000 units. .55 - —
dms., works, 1,000,000 units. .50 - —
3,300 USP units per gm., dms., works..lb. .66 - .71

Carvol, bots. .....lb.14.75 -22.50
Cascara sagrada bark, bulk..lb. .40 - .43
Case-hardening mixture, 30% gran., dms., l.c.l..lb. .09¾- —
slabs., dms., l.c.l.....lb. .08¾- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point..lb. .30 - .35
rennet-precip., 10,000 lbs. or more, same basis..lb. .35 - —
imp., acid-precip., ground, bgs., 100 bgs. or more..lb. .30 - —
rennet-precip., unground, 100 bgs., or more..lb. No prices.
smaller lots.....lb. .92 - —
Cassia, Batavia No. 1, Thinquill bls..lb. .60 Nom.
Pedang, No. 1, bls.....lb. .30 - .31
shortstick, bls.....lb. .50 Nom.
broken, bls. .....lb. .24 - .25
China buds, bgs.....lb. .26 - .27
rolls, selected, cs.....lb. .12½- .13
extra select, broken, bls..lb. .10 - .10½
Kwangsi, broken, bls.....lb. .15½- .16
Saigon, all medium.....lb. .28 - .28½
4-10-4, bls.....lb. .28 - .28½
broken, bls.....lb. .24½- .25
Yunnan, bls.....lb. .22 - .23
Cassia fistula, bskts.....lb. .26 - .28
Castor beans, new crop, June-July, bgs., Brazilian ports. long ton.250.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works..ton.37.50 - —
Castoreum, nat., cns.....lb. 8.00 -13.00
synthetic, cns.....lb.10.00 -21.00
Catechol, CP, cryst., works, fib. dms..lb. 2.00 - —
resublimed, works, dms...lb. 3.25 - —
Catnep, bls. .....lb. .65 - .70
Celery seed, French, bgs.....lb. .20 - .21
Indian, bgs.....lb. .19 - .19½
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 - —
granules, ctns., same basis.lb. .42 - —
Acetate-butyrate, flake, high (36.5%) butyrl content, 50-lb. ctns., 5,000 lbs. and up, frt. alld.....lb. .51 - —
1,000-4,900 lbs., frt. alld..lb. .52 - —
50-lb. ctns., 100-900 lbs., frt. alld..lb. .53 - —
smaller pkgs., works.lb. .54 - —
medium (15.5 or 17.0%), 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .49 - —
1,000-4,900 lbs., frt. alld..lb. .50 - —
100-900 lbs., frt. alld..lb. .51 - —
smaller pkgs., works..lb. .52 - —
Granules are 6c. per lb. higher, all quantities.
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .40 - —
Cerium hydrate, dms., works..lb. 1.00 - —
Oxalate, NF, bbls., kgs., works. lb. .70 - .72
Oxide, optical grade, kgs., 100-lb. lots, works..lb. 1.75 - —
bgs., smaller lots, works.lb. 2.25 - —
Chalk, precipitated, cosmetic, dentifrice, and drug, bgs., c.l., works..lb. .02½- —
paint and other industries, bgs., c.l., works..ton.40.00 - —
papermakers, bgs., c.l., works. ton.32.50 -40.00
rubbermakers, bgs., c.l., works..ton.30.00 - —
Chamomile, Hungarian, cs., futures..lb. .65 - .70
Roman, bls., futures.....lb. 1.40 - 1.45
Charcoal, hardwood, lump, bulk, c.l., works..ton.39.50 43.50
bur. bgs., extra, returnable, c.l., works..ton.42.50 -45.50
briquets, bulk, c.l., works.ton.49.50 - —
bgs., c.l., works.....ton.54.50 -55.50
granular, bgs., incl., c.l., wks. ton.50.50 - —
screenings, bgs., works...ton.33.50 - —
Pinewood, lump, bgs., c.l., works, South..ton.35.00 - —
granular, powd., bgs., c.l., works, South..ton.40.00 - —
l.c.l., works .....ton.50.00 -60.00
Willow, powd., bbls.....lb. .06 - .07

Chestnut extract, 25% tannin, bbls., c.l., works.....lb. .0435- —
l.c.l., works.....lb. .0460- —
tanks, works.....lb. .0375- —
powdered, 65% tannin, bags, extra, c.l., works.....lb. .1040- —
l.c.l., works.....lb. .1115- —
China clay, dom., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton.12.00 - —
l.c.l., works....ton.16.00 - —
bulk, c.l., works.ton. 9.00 - —
200 mesh, bgs., c.l., works..ton.12.00 - —
l.c.l., works.....ton. 9.50-15.50
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works.ton.12.50 - —
imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..ton.51.25 - —
powd., cks., l.c.l., ex whse. ton.71.75 - —
Chloral, dms., works.....lb. .45 - .50
Hydrate, jars.....lb. .93 - .98
Chlorinated rubber, standard, ctns., 100 lbs. up, works.lb. .40 - —
smaller lots, works.....lb. .42 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Chlorine, liquid, cyls., c.l., del. lb. .06¾- —
contracts, del. .....lb. .06¾- —
l.c.l., del. .....lb. .09 - .10½
tanks, single units, works, frt. equald..100 lbs. 2.00 - —
multiple units, 3 cars or more, works, frt. equald. 100 lbs. 2.30 - —
2 cars, 2 works, frt. equald..100 lbs. 2.90 - —
1 car, 1 works, frt. equald. 100 lbs. 3.50 - —

Chloroform, tech., dms.....lb. .20 - .23
USP, dms.....lb. .30 - .33
Chloropicrin, com'l, 180-lb. cyls. lb. .80 - —
100-lb. cyls., same basis.lb. .82 - —
25-lb. cyls., ex whse.....lb. 1.00 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Choline chloride, fib. dms., works. lb. 3.00 - 3.10
feed grade, fib. dms., works. lb. 2.60 - —
Dihydrogen citrate, fib. dms., works..lb. 3.00 - 3.10
Chrome acetate, powd., 72% Cr., bbls., works..lb. No stocks
solut., 7½%, bbls., cs.....lb. .09¼- —
8½%, bbls., cs.....lb. .09¾- —
Fluoride, bbls., works.....lb. .24 - .27
Cake, bulk, c.l., works....ton.16.00 - —
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots.....lb. 6.02 - 8.00
Cinchona bark, red, quill, USP, 10-in., can..lb. 1.26 Nom.
Cinchonidine, small, cryst., cns., 100 ozs..oz. 1.02½- —
Cinchonine, small, cryst., cns., 100 ozs..oz. .75½- —
large, cryst., cns., 100 ozs..oz. .79½- —
sulphate, NF, cns., 100 ozs..oz. .55½- —
Cinchopen, NF, heavy, dms., works..lb. 4.20 - 4.30
standard, dms., works....lb. 4.00 - 4.10
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms..lb. .82 - 1.25
Cinnamon, Ceylon, No. 2, bls., futures..lb. .58 - .59
Citral, bots., cns.....lb. 7.25 - 9.05
Citronellal, bots., dms.....lb. No prices.
Citronellol, bots., dms.....lb. 5.70 -11.00
Clove, Madagascar, bls.....lb. .13 - .13½
futures, bls. .....lb. .12¾- .13¼
Zanzibar, bls.....lb. .16 - .16½

Clover tops, red, dom., bgs....lb. .70 - .75
imported, bgs.....lb. No stocks
Coaltar, coal-gas, crude, by gal., dms., c.l., works..dm. 9.50 - —
l.c.l., works.....dm.10.00 - —
tanks, works.....gal. .09 - —
refd., 50-gal. bbls., c.l., works. bbl.10.00 - —
l.c.l., works.....bbl.10.50 - —
tanks, works .....gal. .10 - —
water-gas, crude, 55-gal. dms., c.l., works..dm. 9.50 - —
l.c.l., works .....dm.10.00 - —
tanks, works .....gal. .09 - —
refd., 55-gal. dms., c.l., works. dm.10.00 - —
l.c.l., works.....dm.10.50 - —
Cobalt acetate, bbls., kgs., dlvd. lb. .38¾- —
Carbonate, powd., bgs., works. lb. 1.53 - —
feed grade, 49½% Co, kgs.lb. 1.58 - —
Chloride, kgs., works.....lb. .37¼- —
feed grade, 24.5% Co, kgs..lb. 1.35 - —
Hydrate, bbls.....lb. 2.04 - —
feed grade, 62% Co, kgs....lb. 2.04 - —
Linoleate, paste, 6%, dms...lb. .60 - —
solid, 5½%, dms.....lb. .58½- —
Naphthenate, 6% Co, solid, dms..lb. .35½- —
Nitrate, feed grade, 20.4% Co, bbls..lb. .75¾- —
Oleate, bbls.....lb. .44 Nom.
Oxide, black, kgs.....lb. 1.16 - —
Phosphate, feed grade, 34% Co, kgs..lb. 1.26½- —
Resinate, precip., 7.5% Co, 100-Lb. dms..lb. .38½- —
Soyate, 5%-5.5% Co, 50-gal. dms..lb. .42 - .44
Sulphate, dms.....lb. .65 - —
feed grade, 21% Co, kgs....lb. 1.00 - —

Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.

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Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, 100-oz. lots, cns..os. 9.75 - —
Cochineal, gray, bgs.....lb. .65 - .68
silver, Teneriffe, bgs.....lb. .66 - .69
Cocoa butter, bulk, ship. pt....lb. .38 - —
Cocillana bark, bgs.....lb. .53 - .54
Codeine, cns., 100 ozs.....oz. 11.70 - —
Hydrochloride, cns., 100 ozs.oz. 10.50 - —
Phosphate, cns., 100 ozs.....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls.....lb. .24 - .25
blue, bls.....lb. .24 - .25
Colchinine, bots., cns.....oz. No stocks.
Colchicum seed .....lb. No stocks.
Collodion, USP, dms.....lb. .24 - .29
Flexible, USP, dms.....lb. .25½- .30½
Colocynth pulp, bls.....lb. .52 - .53
Colombo root, bls.....lb. .17 - .18
Coltsfoot leaves, bgs.....lb. .50 - .55
Condurango bark, bgs., futures, lb. .28 - .29
Copaiba balsam, Para, cns....lb. No stocks.
S. A., USP, cns.....lb. 1.10 - 1.16
Copper acetate, cupric, bbls., works..lb. .28 - —
smaller containers, wks..lb. .29 - .30
Carbonate, 52-54%, bbls....lb. .26 - .26½
Chloride, anhyd., bbls.....lb .26½- —
crystals, bbls. .....lb. .17¾- —
Cyanide, tech., bbls.....lb. .40½- —
Hydrate, dms., del. E. Miss.lb. .26¼- .26¾
Metal, electrolytic .....lb. .21½- —
Naphthenate, 8% Cu, liquid, dms., divd..lb. .21 - —
solid, 11% Cu, dms., divd..lb. .27½- —
Nitrate, tech., cryst., bbls., works..lb. .19¼- .20½
Oleate, precip., bbls.....lb. .32¼- —
Oxide, black, bbls., works..lb. .29 - .30
red, com'l, bbls., works....lb. .30 - .33
Oxychloride-sulphate, bgs....lb 24 -

Copper resinate, precip., 8.5% Cu, 125-lb. dms..lb. .21½- —
Stearate, bgs., works.....lb. .35½- —
Sulphate, 99%, cryst., bgs., c.l., works. 100 lbs. 7.60 - —
l.c.l., 100 to 36,000 lbs.. 100 lbs. 7.85 - 8.60
Monohydrated, dms.. c.l., divd. 100 lbs. .1255- .1280
l.c.l., divd. .....100 lbs. 13.55 - —
tribasic, dealers, bgs., works. c.l..lb. .21½- .22½
l.c.l., same basis.....lb. .22 - .23½
Copperas, cryst., gran., bgs., c.l., works..ton. 17.00 - —
l.c.l., works .....100 lbs. 1.55 - 2.00
bbls., c.l., works.....ton. 20.00 - —
bulk, c.l., works.....ton. 14.00 - —
Copra, c.i.f., Pacific ports....ton. 225.00 - —
c.i.f. Atlantic or Gulf ports.ton. 231.00 - —
Coriander seed, Argentine, bgs., lb. .05½- .06
Indian, bgs. .....lb. No stocks.
Italian, bgs. .....lb. .06¼- .06¾
Morocco, bgs. .....lb. No stocks.
Peruvian, bgs. .....lb. .07 - .07½
Cork silk, bls. .....lb. .55 - .60
Corn sugar, tanners, chipped, bgs., c.l., 60,000 lbs. min. 100 lbs. 5.44 - —
bbls., c.l., same basis.... 100 lbs. 5.48 - —
Syrup, 42°, bbls., c.l....100 lbs. 5.80 - —
l.c.l. .....100 lbs. 5.95 - —
Corrosive sublimate, USP, cryst., dms., 50 lbs. or more..lb. 1.93 - —
gran., powd., dms.. 50 lbs. or more..lb. 1.73 - —
Cottonroot bark, bls.....lb. .40 - .45
Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd unit-ton. No prices
Meal, 41% protein sacked, mills, southeast, c.l..ton. 65.00 -69.00

Coumarin, cns., 25 lbs. or more. lb. 2.75 - 3.25
smaller lots.....lb. 2.90 - 3.80
Cramp bark, NF, bls.....lb. .75 - .80
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs., one ship't..lb. .41½- —
smaller lots, bbls., kgs. lb. .42 - .42½
Creosote carbonate, bots., cbys. lb. 2.30 - 2.40
Coaltar (see Cresol).
Oil, coaltar, crude, tanks, works. gal. .17½- —
refined, dms., c.l., works. gal. .30 - .34½
l.c.l., same basis...gal. .32 - .35
tanks, same basis....gal. .21 - .23
solution, 80-20, tanks, works. gal. .16 - —
Wood beech, bots., cbys....lb. 1.05 - 1.10
Hardwood, NF, bots., cbys.lb. .80 - .85
Pine, dms.....gal. .31 - .32
Cresol, special resin grades, dms., c.l., works, frt. equald. lb. .12¼- .13½
l.c.l., same basis.....lb. .13 - .13¾
tanks, same basis.....lb. .11¾- .12½
USP, dms., c.l., same basis...lb. .13¾- —
l.c.l., same basis.....lb. .14¼- —
tanks, same basis.....lb. .13 - —
Crotonaldehyde, 91-93%, 55 and 110 gal. dms., l.c.l., works. lb. .17 - —
5 and 10-gal. dms.. l.c.l. works..lb. .20½- —
Cryolite, dealers, nat., bgs., bbls., c.l., works..100 lbs. .12¾- —
bbls., l.c.l., works.....100 lbs. .14 - —
synth., bgs., bbls., c.l., frt. alld. E. of Miss. R..lb. - - —
l.c.l., works.....lb. - - —

Cube root, 5% rotenone, bbls., works..lb. .60 - .65
4% rotenone, bbls., works..lb. .48 - .52
Cubeb berries, XX, bgs.....lb. .75 - .80
powd., cs. .....lb. 1.00 - 1.05
Culvers root, bls.....lb. .70 - .75
Cumin seed, Cyprus, bgs.....lb. No stocks
Indian, bgs., futures.....lb. .40 - .41
Morocco, bgs.....lb. No stocks
Persian, bgs. .....lb. .27 - .28
Syrian, bgs. .....lb. .27 - .28
Cutch, bgs.....lb. No stocks
Cyanamide, fertilizer mixing grades, guaranteed 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk. unit-ton. 1.85 - —
21% N., pulv., bgs., same basis..unit-ton. 1.75 - —
Cyclohexane, tech., dms., c.l., works..lb. .09½- —
l.c.l., works.....lb. .10 - —
tanks, works.....lb. .08 - —
Cyclohexanol, dms., works.....lb. .21 - .26
Cyclohexanone, dms., c.l., works. lb. .30 - .33
tech., dms., c.l., works.....lb. .31 - .34
l.c.l., works.....lb. .30½- —
tanks, works.....lb. .29 - —
Cyclopropane, USP, cyls., divd.. gal. .27 - —

D

Damiana leaves, bls.....lb. .35 - .40
Dandelion root, bls.....lb. .75 - .90
DDT, fiber, dms., c.l., works.lb. .42½- —
ton lots, works.....lb. .45 - —
tins, smaller lots, works...lb. .48 - .50
Decanol, normal, tech., dms., dlvd..lb. .35 - —
Deertongue, bls.....lb. .35 - .40
Defluorinated phosphate, 85% b.p.l., paper bgs., Columbus, Ga..ton. 39.25 - —
Texarkana, Ark.....ton. 41.00 - —
Tupelo, Wis.....ton. 39.25 - —
Walee, Tenn.....ton. 39.25 - —
phosphate rock, paper bgs., works..ton. 34.25 - —
Degras, common, bbls.....lb. .10 - .12
neutral, less 2% ffa, bbls...lb. .22 - .24
over 2% ffa, bbls.....lb. .21 - .23
Derris root (see Cube root).
Dextrin, British gum, bgs., c.l. 100 lbs. 6.65 - —
l.c.l. .....100 lbs. 6.80 - —
Chicago, bgs., c.l....100 lbs. 6.20 - —
Corn, canary, bgs., c.l...100 lbs. 6.39 - —
l.c.l. .....100 lbs. 6.54 - —
Chicago, bgs., c.l..100 lbs. 5.94 - —
dark, bgs., c.l.....100 lbs. 6.49 - —
l.c.l. .....100 lbs. 6.64 - —
Chicago, bgs., c.l..100 lbs. 6.04 - —
white, bgs., c.l.....100 lbs. 6.24 - —
l.c.l. .....100 lbs. 6.39 - —
Chicago, bgs., c.l..100 lbs. 5.79 - —
Above prices are for dextrin in paper bgs.; cotton bgs., 20c higher.
Potato, dom., bgs.....lb. .14¼- .14½
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grades, bots...lb. 5.20 - 6.00
laboratory grade, bots..... 100 grams. 4.50 - —
tech., bots., works.....lb. 3.00 - —
Diamyl ether (see Amyl ether).
Phthalate, dms., tanks.....lb. No prices
Diamylamine, dms. c.l., works, lb. 1.47 - —
l.c.l., works.....lb. 1.50 - —
Dianisidine, dms.....lb. 1.38 - —
Diatomaceous earth, dom., CP, bgs., c.l., Atlantic Coast.lb. .07 - —
l.c.l., ex whse.....lb. .10 - .16
nat., bgs., c.l., Pacific coast, ton. 22.00 -25.00
l.c.l., ex whse.....ton. 45.00 - —
purified, bgs., c.l., Atlantic coast..ton. 55.00 -59.00
l.c.l., ex whse.....ton. 85.00 -90.00
Algerian, bgs., c.l., Atlantic coast..ton. No price
Mexican, white, bgs., c.l., Atlantic coas' .lb. .03 - —
l.c.l. .....lb. .06 - —
Dibutyl phthalate, dms., c.l., same basis..lb. .33½- —
l.c.l., same basis.....lb. .34½- —
tanks, same basis.....lb. .32 - —
Sebacate, dms., c.l., works..lb. No prices
l.c.l., works.....lb. No prices
tanks, works.....lb. No prices
Tartrate, dms., wks., frt. alld. lb. .92 - 1.02
Dibutylamine, dms., c.l., works. lb. .76 - —
l.c.l., works.....lb. .79 - —
Dichlorodiphenyltrichlorethane (see DDT).
Dichloroethyl ether, purified, dms., c.l., works, frt. equald with So. Charleston..lb. .13½- —
l.c.l., same basis.....lb. .14 - —
tanks, same basis.....lb. .12½- —
Diethanolamine, dms., c.l., frt. alld in E..lb. .23½- —
l.c.l., same basis.....lb. .24½- —
tanks, same basis.....lb. .22½- —
Diethyl carbonate, dms., l.c.l..lb. .40 - —
Oxalate, dms., c.l.....lb. .35½- —
l.c.l. .....lb. .36½- —
tanks .....lb. .34 - —
Phthalate, dms., c.l., divd...lb. .29¼- —
dms., l.c.l., divd.....lb. .30 - —
tanks, divd. .....lb. .28 - —
Sulphate, dms., c.l., works..lb. .14 - —
l.c.l., works .....lb. .15 - —
tanks, works .....lb. .13 - —
Diethylamine, dms., c.l., works, lb. .69 - —
l.c.l., works .....lb. .71 - —
tanks, works.....lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss. R..lb. .75 - —
Diethylanilin, dms. .....lb. .48 - —
Diethyleneglycol, dms., c.l., frt. alld. in E..lb. .14 - —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —
Monobutylether, dms., c.l., wks. lb. .22 - —
l.c.l., works .....lb. .23 - —
tanks, works.....lb. .21 - —
Monoethylether, dms., c.l., wks. lb. .15½- —
l.c.l., works .....lb. .16½- —
tanks, works.....lb. .14½- —
Diethylstilbestrol, bots.....kilo. 270.00 -280.00
Digitalin, cryst., bots.....gram. 29.00 -30.00
powd., bots. .....gram. 1.25 - 1.75
Digitalis leaves, dms.....lb. 1.05 - 1.15
Diglycol laurate, dms.....lb. .31 - .32
Oleate, light, bbls., c.l.....lb. .17 - —
Stearate, bbls., c.l.....lb. .23 - —
Dihydroxydichlorodiphenylmethane, dms., works of N.Y.met.lb. .95 - 1.00
smaller containers, same basis. lb. 1.05 - 1.40
Di-isobutylene, dms., c.l., works. lb. .07 - —
l.c.l., works.....lb. .07½- —
tanks, works.....lb. .05½- —
Di-isobutyl ketone, dms., works. lb. .19 - —
Dillseed, decorticated, bgs.....lb. .12¾- .13
dewhiskered, bgs. .....lb. .10¼- .10¾

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Dimethyl phthalate, dms., c.l., divd..lb. .20 - —
l.c.l., divd. .....lb. .20½- —
tanks, divd. .....lb. .19 - —
Dimethylamine, anhyd., cyl., frt. alld. E. of Miss., 100% basis. lb. .40 - —
solution, dms., works, frt. alld. E. of Miss., 100% basis..lb. .37 - .47½
tanks, same basis.....lb. .36 - —
l.c.l. .....lb. .22 - —
Dimethylaniliin, dms., c.l.....lb. .21 - —
Dinitrobenzene, bbls. .....lb. .16 - —
Dinitrochlorobenzene, dms.....lb. .14 - —
Dinitronaphthalene, kgs.....lb. .35 - .38
Dinitrophenol, bbls. .....lb. .22 - —
Dinitrotoluene, rfd., dms.....lb. .18 - —
oily, dms. .....lb. .07 - —
Diorthotolylguanidin, dms., ten lots, divd..lb. .44 - —
smaller lots, divd.....lb. .46 - .47
Dioxan, dms., c.l., frt. alld....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, destructive dist., dms., extra, wks., South, c.l., gal. .66 - —
tanks, wks., South.....gal. .60 - —
steam-dist., dms.....gal. .90 - —
tanks, divd. E.....gal. .77 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works .....lb. .16 - .20
Oxide, perfume grade, cns...lb. .50 - .61
dms. .....lb. .45 - .56
Diphenylamine, bbls.....lb. .25 - —
Diphenylguanidin, dms., tens..lb. .35 - —
smaller lots .....lb. .36 - .37
Divi-divi, 35% tannin, c.l., U.S. ports, ex dock..ton.67.00 -68.00
Doggrass root, dom., cut, bls.lb. .36 - .35
imp., NF, cut, bls.....lb. .40 - .45
Dogwood, Jamaica, bark, bls..lb. .12 - .14
Dover's powder, USP, cns....lb. No stocks.
Dragon's blood, drops, cs.....lb. .55 - .60
reeds, cs.....lb. No stocks.
Dyes, coaltar (certified colors for foods, drugs and cosmetics), 5-lb. lots)—
Blue, FD&C, No. 1, cns....lb.13.00 - —
Green, FD&C, No. 1, cns....lb.13.00 - —
No. 2, cns.....lb.17.00 - —
No. 3, cns.....lb.27.00 - —
Orange, FD&C, No. 1, cns...lb. 2.80 - —
No. 2, cns.....lb. 3.55 - —
Red, FD&C, No. 1, cns.....lb. 5.75 - —
No. 2, cns.....lb. 3.05 - —
No. 3, cns.....lb.17.00 - —
No. 4, cns.....lb. 5.50 - —
No. 32, cns.....lb. 4.05 - —
Yellow, FD&C, No. 1, cns..lb. 3.00 - —
No. 3, cns.....lb. 2.55 - —
No. 4, cns.....lb. 2.55 - —
No. 5, cns.....lb. 3.05 - —
No. 6, cns.....lb. 3.05 - —
Dyes, coaltar (certified colors for drugs and cosmetics), 1-lb. lots—
Black, D&C, No. 1, cns.....lb. 8.35 - —
Blue, D&C, No. 4, cns.....lb.12.35 - —
Brown, D&C, No. 1, cns.....lb.12.35 - —
Green, D&C, No. 5, cns.....lb.12.35 - —
No. 6, cns.....lb.12.35 - —
Orange, D&C, No. 3, cns....lb. 8.35 - —
No. 4, cns.....lb.15.35 - —
No. 10, cns.....lb.15.35 - —
Red, D&C, No. 8, cns.....lb. 2.85 - —
No. 17, cns.....lb. 8.35 - —
No. 18, cns.....lb.15.35 - —
Yellow, D&C, No. 7, cns....lb. 8.35 - —
No. 8, cns.....lb. 8.35 - —
No. 11, cns.....lb.10.35 - —
No. 19, cns.....lb.15.35 - —
No. 22, cns.....lb. 8.35 - —
No. 33, cns.....lb.13.35 - —
No. 37, cns.....lb.12.35 - —
Dyes, coaltar (certified colors for external use drugs and cosmetics), 1-lb. lots—
Blue, Ext. D&C, No. 1, cns..lb.12.35 - —
Green, Ext., D&C, No. 1, cns. lb.12.35 - —
Red, Ext., D&C, No. 1, cns..lb.10.35 - —
No. 3, cns.....lb.21.85 - —
No. 8, cns.....lb. 7.85 - —
No. 10, cns.....lb.12.35 - —
No. 13, cns.....lb.12.35 - —
Yellow, Ext., D&C, No. 1, cns., lb. 8.35 - —
Dyes, coaltar, for general uses (numbers are those of the Colour Index scale).
86 Chrome yellow, 2G..lb. .65 - .70
40 Chrome yellow R....lb. .50 - 1.00
53 Victoria violet.....lb. .80 - 1.00
105 Lake red C.....lb. .70 - .80
170 Fast red A.....lb. .56 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R, paste..lb. .85 - .90
189 Lake red R, powd...lb. 3.00 - 3.10
202 Chrome blue black U.lb. .35 - .42
204 Chrome black A....lb. .42 - .45
208 Fast red blue R....lb. .75 - 2.00
216 Chrome red B.....lb. 1.75 - 2.00
262 Cloth red 2B.....lb. .60 - .80
280 Fast cyanin 5R.....lb. .90 - 1.00
290 Chrome black F.....lb. .85 - .86
304 Paper yellow.....lb. .88 - .90
307 Fast cyanin black B.lb. .80 - .85
326 Direct fast scarlet..lb. 2.00 - 2.25
365 Chyrophenin G.....lb. .68 - .70
382 Direct scarlet B.....lb. 1.15 - 1.20
387 Direct violet B.....lb. 1.00 - 1.30
394 Direct violet N.....lb. .80 - .95
401 Developed black BHN, lb. .45 - .60
406 Direct blue 2B.....lb. .66 - .70
415 Direct orange B.....lb. .60 - .70
419 Direct fast red F....lb. .70 - .72
420 Direct brown M.....lb. .55 - .57
448 Benzo purpurin 4B...lb. .65 - .68
405 Benzo purpurin 10B..lb. .40 - .50
502 Direct azorin G.....lb. .75 - .80
512 Direct blue RD.....lb. .80 - 1.00
518 Direct pure blue 6B..lb. 1.20 - 1.30
520 Direct pure blue....lb. .50 - 1.00
529 Direct fast black FF.lb. .55 - 1.00
581 Direct black EW....lb. .50 - .54
582 Direct black RX....lb. .35 - .45
592 Direct green B.....lb. .50 - .55
594 Direct green G.....lb. .50 - .55
596 Direct brown 3GO...lb. .85 - 1.00
620 Direct yellow R.....lb. 1.25 - 1.50
688 Acid violet... .....lb. 1.00 - 3.00
812 Primulin .....lb. .70 - .73
814 Direct fast yellow...lb. 2.00 - 2.25
945 Nigrosin (water soluble). lb. .35 - .50
1177 Indigo, 20%, paste...lb. .15 - .16
Benzo fast black L.lb. .90 - 1.00
Sulphur black.....lb. .20 - .25
Sulphur blue.....lb. .45 - 1.00
Sulphur brown.....lb. .25 - .50
Sulphur maroon....lb. .40 - —
Sulphur tan.....lb. .30 - .32
Sulphur olive.....lb. .25 - .54
Sulphur yellow.....lb. .30 - .56
Zambesi black.....lb. .75 - .90
Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 5c. per lb. higher, sellers' works or warehouse).
Black—
865 Nigrosin derivatives..lb. .36 - .44
Blue—
1075 Alizarin astral base..lb.15.00 - —
1073 Alizarin cyanin, green base..lb. 6.00 - —
Brown—
Brown, oil soluble.....lb. 1.15 - —
Green—
1078 Alizarin cyanin green base..lb. 5.00 - —

Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 5c. per lb. higher, sellers' works or warehouse).
Orange—
24 Sudan I.....lb. .75 - —
Red shade.....lb. .75 - —
Red—
75 Sudan II.....lb. 1.05 - —
258 Sudan IV.....lb. .85 - —
680 Oil violet.....lb. .60 - —
749 Rhodamine B (oil pink). lb. 2.50 - —
1060 Anthraquinone, violet base..lb. 6.00 - —
Yellow—
16 Amidoazobenzene yellow. lb. .90 - —
17 Amidoazotoluene yellow. lb. .75 - —
61 Yellow, OB.....lb. 1.40 - 2.00
Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up 5c. per lb. higher, sellers' works or warehouse).
Black—
246 Naphthol blue black S.. lb. .50 - —
729 Victoria blue B.....lb. 1.85 - —
861 Indulin .....lb. .87 - —
878 Methylene gray.....lb. 1.50 - —
909 New blue P.....lb. 1.20 - —
922 Methylene blue.....lb. 1.00 - —
1054 Alizarin saphirol B...lb. 1.90 - —
1130 Indigotin IA.....lb. .85 - —
Blue—
714 Patent blue A.....lb. 1.05 - 1.10
Brown—
231 Bismarck brown G...lb. .47 - .62
234 Resorcin brown Y....lb. .65 - —
235 Resorcin dark brown R. lb. .65 - —
632 Bismarck brown R...lb. .47 - .62
793 Phosphin .....lb. 4.65 - —

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up, 5c. per lb. higher, sellers' works or warehouse).
Green—
5 Naphthol green S....lb. 1.00 - —
657 Malachite green.....lb. 1.35 - —
662 Brilliant green.....lb. 2.00 - —
666 Guinea green B.....lb. 1.15 - —
737 Wool green S.....lb. .58 - —
924 Methylene green B....lb. 1.55 - —
1078 Alizarin cryanin green.. lb. 2.00 - —
Orange—
10 Chrysodin G.....lb. .44 - —
21 Chrysodin R.....lb. .41 - —
27 Orange G.....lb. .50 - —
31 Amidonaphthol red G.lb. .42 - —
37 Amidonaphthol red 6B. lb. .66 - —
151 Orange Y.....lb. .31 - .32
161 Orange R.....lb. .34 - —
Red—
79 Ponceau R.....lb. .48 - —
88 Fast red B.....lb. 1.65 - —
176 Fast red A.....lb. .54 - —
179 Azorubin .....lb. .60 - —
183 Crocein scarlet 3BX..lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
252 Brilliant crocein M...lb. .66 - —
677 Fuchsin .....lb. 2.10 - —
749 Rhodamine B.....lb. 3.50 - —
752 Rhodamine 6B.....lb. 4.50 - —
768 Eosin G.....lb. 1.50 - —
841 Safranin .....lb. 1.45 - —
Violet—
680 Methyl violet B.....lb. .70 - .75
681 Crystal violet B.....lb. 1.75 - —
695 Acid violet 4BN.....lb. .88 - —
Yellow—
10 Naphthol yellow S....lb. .83 - —
138 Metanil yellow.....lb. .56 - .58
634 Fast light yellow.....lb. 1.25 - —
639 Xylene light yellow....lb. 1.15 - —
640 Tartarsin .....lb. .80 - —
655 Auramine .....lb. 1.27 - —

Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 5c. per lb. higher, sellers' works or warehouse).
Black—
864 Nigrosin .....lb. .36 - .44
Blue—
800 Indulin .....lb. .60 - .70
Brown—
331 Bismarck brown.....lb. 1.50 - —
Green—
637 Malachite, green base— lb. 2.00 - —
Orange—
20 Chrysoidin G.....lb. .95 - —
Red—
677 Fuchsin, magenta, base. lb. 7.25 - —
749 Rhodamine R.....lb. 4.75 - —
Yellow—
67 Amidoazotoluene yellow. lb. .75 - —
655 Auramine .....lb. 2.00 - —
800 Chinolin yellow SS...lb. 2.00 - —
Violet—
680 Methyl violet base...lb. .55 - —
Dyes, natural (see name of article).

E

Echinacea root, bls.....lb. .70 - .75
Egg, albumen (see Albumen).
Yolk, dried, dom., bbls.....lb. 1.25 - 1.30
imported .....lb. No stocks
Elder flowers, bright, bls.....lb. .75 - .80
Elecampane root, bls.....lb. .45 - .50
Elm bark, grinding, bls.....lb. .35 - .36
powd., bbls., bxs.....lb. .55 - .56
select, bndls.....lb. .55 - .56
Emetine hydrochloride, bots..oz.53.50 -54.00
Ephedra, bls.....lb. .28 - .30
Ephedrine, synthetic, USP anhydrous, bots, 100-oz. lots..oz. .84 - —
hydrous, bots., 100-oz. lots. oz. .78 - —

FROM SHELL CHEMICAL

GLYCEROL DICHLOROHYDRIN

An hydroxyl-substituted, halogenated, aliphatic compound

APPROXIMATE COMPOSITION	
70%	2, 3-Dichloropropanol-1 ($CH_2Cl.CHCl.CH_2OH$)
30%	1, 3-Dichloropropanol-2 ($CH_2Cl.CHOH.CH_2Cl$)

PHYSICAL PROPERTIES	2, 3 Isomer	1, 3 Isomer
Molecular wt.	128.99	128.99
B.P.°C at 760 mm	182	175
Spec. Grav. 20/4°C	1.3616	1.3645
Refr. Index 20/D	1.48491	1.48375

TYPICAL PROPERTIES OF COMMERCIAL MIXTURE	
Spec. Grav. 20/20	1.362-1.366
Refr. Index 20/D	1.4838-1.4848
Flash Open Cup	200°F
Solub. at 20° C in: Water	14%/w
Octane	5%/w
Acetone	∞
Toluene	∞

Among the many other Shell Chemical products are: Epichlorohydrin, Diisobutylene, Diacetone Alcohol, Acetone, and Methyl Isobutyl Ketone

NOW IN COMMERCIAL PRODUCTION

Glycerol Dichlorohydrin may react either through its two reactive carbon-to-chlorine bonds or through its reactive hydroxyl group to produce a variety of glyceryl derivatives. The tri-functional character suggests its use as a chemical intermediate.

THE FOLLOWING ORGANIC REACTIONS ARE TYPICAL:

Replacement of Cl by SR, OR, Br, NH_2, NHR, NR_2, OH, CN, OCOR

Esterification of the hydroxyl group by organic and inorganic acids

This product should be of interest to manufacturers of plastics, dyes, fine chemicals, surface-active agents, elastomers, films and filaments, pharmaceuticals, and adhesives.

A request on your business letterhead will bring a data sheet and free sample if desired.

SHELL CHEMICAL CORPORATION

100 Bush Street, San Francisco 6 • 500 Fifth Avenue, New York 18
Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit

Epichlorohydrin, dms., c.l., works.	lb.	.46	- —
l.c.l., works	lb.	.46½	- —
tanks, works	lb.	.44½	- —
Ephedrine hydrochloride, tin.. 100 ozs..oz.		.60	- —
Sulphate, cryst., tins, 100 ozs.	oz.	.67	- —
powd., tins, 100-oz. lots..oz.		.58	- —
Epinephrine, synth., USP, bots..	gram.	.70	- .95
Epsom salt, tech., cryst., bgs., c.l..100 lbs.		2.05	- —
l.c.l.	100 lbs.	2.40	- 2.65
USP, cryst., bgs., c.l..100 lbs.		2.25	- —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs.		2.50	- —
smaller lots....100 lbs.		2.75	- —
bbls., c.l.....100 lbs.		2.35	- —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs.		2.60	- —
smaller lots.....100 lbs.		2.85	- —
kgs., c.l.....100 lbs.		2.60	- —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs.		2.85	- —
smaller lots.....100 lbs.		3.10	- —

Epsom salt prices freight equalized with Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland.

Ergot, USP, cns.	lb.	1.25	- 1.30
Eserine, bots.	oz.	No prices	
Sulphate, bots.	oz.	65.00	- —
Ether, acetic (see Ethyl acetate).			
Amyl (see Amyl ether).			
Butyl, l.c.l., dms., dlvd.	lb.	.30	- —
Ethyl (see Ether, sulphuric).			
Nitrous, cons., bots., 100 lbs.	lb.	.96	- 1.10
Sulphuric, cons., dms.	lb.	.11	- .16
USP anesthesia, hospital, 1-lb.			
Synthetic, dms., c.l., frt. alld.	lb.	.18	- —
l.c.l., same basis	lb.	.19	- —
tanks, same basis	lb.	.16	- —

Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld.	lb.	.20½	- .22
l.c.l., frt. alld.	lb.	.21½	- .22½
tanks, frt. alld.	lb.	.19	- .21
95-98%, dms., c.l., frt. alld.	lb.	.23	- —
l.c.l., frt. alld.	lb.	.24	- —
tanks, frt. alld.	lb.	.21½	- —
99%, dms., c.l., frt. alld.	lb.	.21	- .23¼
l.c.l., frt. alld.	lb.	.22	- .23½
tanks, frt. alld.	lb.	.19½	- .21¾
USP, dms.	lb.	.21¾	- —
synthetic, 85-90%, dms., c.l., frt. alld.	lb.	.10½	- —
l.c.l., frt. alld.	lb.	.11	- —
tanks, frt. alld.	lb.	.09½	- —
95-98%, dms., c.l., frt. alld.	lb.	.11	- —
l.c.l., frt. alld.	lb.	.11½	- —
tanks, frt. alld.	lb.	.10	- —
Acetoacetate, dms., c.l., works,	lb.	.50½	- —
l.c.l., frt. alld.	lb.	.51½	- —
Benzoate, bots.	lb.	.50	- .52
B-ethoxy proprionate, dms., works	lb.	.70	- —
Bromide, tech., 98%+, dms.	lb.	.36	- .40
Carbamate, dms., dlvd. E.	lb.	.58	- —
Chloride, tech., tanks	lb.	.13½	- —
USP, bbls., cyl.	lb.	.20	- .22
Cinnamate, cns.	lb.	2.60	- 3.25
Formate, dms., Agnue, Calif.	lb.	.26	- .32
Iodide, bots.	lb.	3.50	- 3.60
Lactate, dms., works	lb.	.38½	- —
Myristate, dms., works	lb.	No prices	
Oenanthate, dms.	lb.	1.10	- 1.15
Oleate, dms., l.c.l., works	lb.	.47	- —
Oxalate, dms., frt. alld.	lb.	.33	- —
Silicate, dist. (see Tetraethyl orthosilicate), 40% available SiO_2, dms., works	lb.	.50	- —
Soyate, 3%-3.5% Co, 50-gal. dms.	lb.	.42	- .44
Sulphate, dms.	lb.	.65	- —
feed grade, 21% Co, kgs.	lb.	1.00	- —

Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.

Ethylcellulose, pkgs., 5,000 lbs., or more, works	lb.	.57	- —
smaller lots, works	lb.	.59	- .67
Ethyldiethanolamine, dms., l.c.l., works	lb.	.80	- —
Ethylene, dichloride, dms., c.l., works, frt. alld. E. of Rockies	lb.	.08	- —
West of Rockies	lb.	.08½	- —
l.c.l., works, frt. alld. E. of Rockies	lb.	.09	- —
West of Rockies	lb.	.09½	- —
tanks, frt. alld. E. Rockies,	lb.	.07	- —
West of Rockies	lb.	.07½	- —
Trichloride (see Trichloroethane).			
Ethyleneglycol, dms., c.l., frt. alld. in E.	lb.	.12	- —
l.c.l., same basis	lb.	.13	- —
tanks, same basis	lb.	.11	- —
Monobutylether, dms., c.l., wks.	lb.	.17½	- —
l.c.l., works	lb.	.18½	- —
tanks, works	lb.	.16½	- —
Monoethylether dms., c.l., works	lb.	.15½	- —
l.c.l., works	lb.	.16½	- —
tanks, works	lb.	.14½	- —
Monoethylether, acetate, dms., c.l., works	lb.	.13½	- —
l.c.l., works	lb.	.14½	- —
tanks, works	lb.	.12½	- —
Monomethylether, dms., c.l., works	lb.	.16½	- —
l.c.l., works	lb.	.17½	- —
tanks, works	lb.	.15½	- —
Ethylethanolamine, dms., c.l., works	lb.	.57	- —
l.c.l., works	lb.	.60	- —
Ethylmonoethanolamine, l.c.l., dms., works	lb.	.80	- —
Ethylmorphine, hydrochloride, bots.	oz.	10.50	-10.75
Ethylvanillin, cns., 5 lbs. or more	lb.	6.75	- —
smaller lots	lb.	6.80	- 6.90

Eucalyptol, cns., dms.	lb.	2.85	- 3.25
Eucalyptus leaves, bls.	lb.	.14	- .15
Eugenol, prime, USP XII	lb.	2.60	- 3.50
Euphorbia, bls.	lb.	.20	- .22

F

Feldspar, enamel, 100 mesh	ton.	17.00	-20.50
bulk, c.l.	ton.	14.00	-17.50
glass, 20 mesh, bgs., works, min. 2 tons.	ton.	12.75	-16.25
bulk, c.l.	ton.	9.75	-12.25
pottery, bgs., l.c.l., works, min. 2 tons.	ton.	20.00	-22.00
bulk, c.l., works	ton.	17.00	-19.00
Fennel seed, Argentine, bgs., futures.	lb.	.11	- .11½
Indian, bgs., afloat	lb.	.18	- .18½
Fenugreek, domestic, bgs.	lb.	No stocks	
Indian, bgs.	lb.	.11	- .11½
Morocco, bgs.	lb.	.11½	Nom.
futures, bgs.	lb.	.10½	- .11
Ferric sulphate (see Iron sulphate, ferric).			
Film scrap, colored, cs., works.	lb.	.13½	- .15
water-white, cs., works	lb.	.14½	- .17
Fir balsam, Canada, cns.	gal.	28.00	Nom.
Oregon, bbls.	gal.	2.55	- 2.60
Fishberries, bgs.	lb.	.24	- .25
Fishliver oils (see Oil, fishliver).			
Fishmeal, grd., 60% protein, bgs., E. works.	ton.	130.00	- —
65% protein, bgs., E. works.	ton.	130.00	- —
Fishscrap, dried, 60% protein, bulk, East coast.	ton.	125.00	-130.00
Flake white, bbls.	lb.	.09	- —
kegs	lb.	.11	- —
Fleaseed, black, bgs.	lb.	.55	- .60
Blonde, bgs.	lb.	.31	- .33
Fluorspar, No. 1, ground 95-98% CaF_2 bulk, c.l., mines, net	ton.	37.00	- —
washed, gravel, 70% or more CaF_2, c.l., bulk, mines.	ton.	33.00	- —
65%, c.l., bulk, mines.	ton.	32.00	- —
60%, c.l., bulk, mines.	ton.	31.00	- —
less than 60%, c.l., bulk, mines.	ton.	30.00	- —
Formaldehyde, bbls., c.l., works,	lb.	.0645	- —
l.c.l., works	lb.	.0695	- —
dms., extra, c.l., works	lb.	.0545	- .0580
l.c.l., works	lb.	.0595	- .0630
tanks, works	lb.	.0370	- .0430
tanktrucks, dlvd., N.Y.C.	lb.	.0395	- —
Fringetree bark, bls.	lb.	.75	- .76
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines.	ton.	30.00	- —
Tex. mines	ton.	27.00	- —
spent, bulk, Bayonne	ton.	6.00	- —
imp., bgs., c.l.	ton.	30.00	-40.00
Furfural, tech., dms., c.l., works.	lb.	.13	- —
tech., dms., c.l., works	lb.	.13	- —
l.c.l., cns., dms.	lb.	.15½	- .20½
tanks, works	lb.	.09½	- —
Fusel oil, dms., c.l.	lb.	.26½	- —
l.c.l.	lb.	.27½	- —
tanks	lb.	.25	- —
Fustic extract, cryst., No. 1, bbls., l.c.l.	lb.	.41	- —
No. 1A, bbls., l.c.l.	lb.	.40	- —
No. 2, bbls., l.c.l.	lb.	.39	- —
No. 3, bbls., l.c.l.	lb.	.37	- —
liquid, No. 0, bbls., l.c.l.	lb.	.21½	- —
No 1, bbls., l.c.l.	lb.	.20	- —
No. 2, bbls., l.c.l.	lb.	.19	- —
No. 3, bbls., l.c.l.	lb.	.19½	- —
solid, No. 1, bxs., l.c.l.	lb.	.27	- —

G

G salt, bbls.	lb.	.50	- —
Galangal root, bls.	lb.	.26	- .28
Gambier, cube, Singapore, cs.	lb.	No stocks.	
Extract, bbls.	lb.	No stocks.	
Gammapicoline, 95%, dms., c.l., works.	lb.	1.35	- —
Gasoline, at refinery, ex tax Arkansas, 73-75 octane, tanks,	gal.	.0612½	- —
Bayonne, 74 octane, tanks,	gal.	.0780	- .09
Gulf Coast, 73-75 octane, tanks.	gal.	.0750	- .0800
Group 3, 73-75 octane, tanks,	gal.	.0775	- .0825
Pennsylvania, western, U. S., motor, 74 octane, leaded, tanks.	gal.	.0800	- .0850
natural, 26/70 octane, Group 3, tanks.	gal.	.05125	- —
Gelatin, silver label, ctns., dlvd.	lb.	1.25	- —
export, cs.	lb.	1.35	- —

Silver label prices 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash. and Wyo.

Gelsemium root, bls.	lb.	.35	- .40
Gentian root, bls.	lb.	.20	- .21
grd., bbls., bxs.	lb.	.26	- .27
powd., bbls., bxs.	lb.	.24	- .25
Geraniol, 92-96%, cns., dms.	lb.	9.00	-11.00
Geranyl acetate, cns.	lb.	5.02	-12.50
Ginger, African, No. 1, bls.	lb.	.14½	- .15
Calicut, Romeo-type, bgs.	lb.	.16	- .16½
Cochin, bleached, bgs.	lb.	.16½	- .17
unbleached, bgs.	lb.	.15¼	- .15½
Jamaica, No. 1, bgs.	lb.	.18	- .19½
No. 2, bgs.	lb.	.16	- .16½
No. 3, bgs.	lb.	.15¼	- .15½
Rhattoon, bgs.	lb.	.14½	Nom.
Glauber's salt, anhyd. (see Soda sulphate), cryst., bgs., works.	100 lbs.	1.25	- 1.75
l.c.l., bgs., works.	100 lbs.	1.65	- 2.10
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest.	lb.	.21	- —
30/36, bgs., c.l., same basis.	lb.	.21	- —
58/82, bgs., c.l., same basis.	lb.	.17	- .23½
82/108, bgs., c.l., same basis.	lb.	.18½	- .23½

Bone glue, l.c.l. prices 1c. higher than c.l.

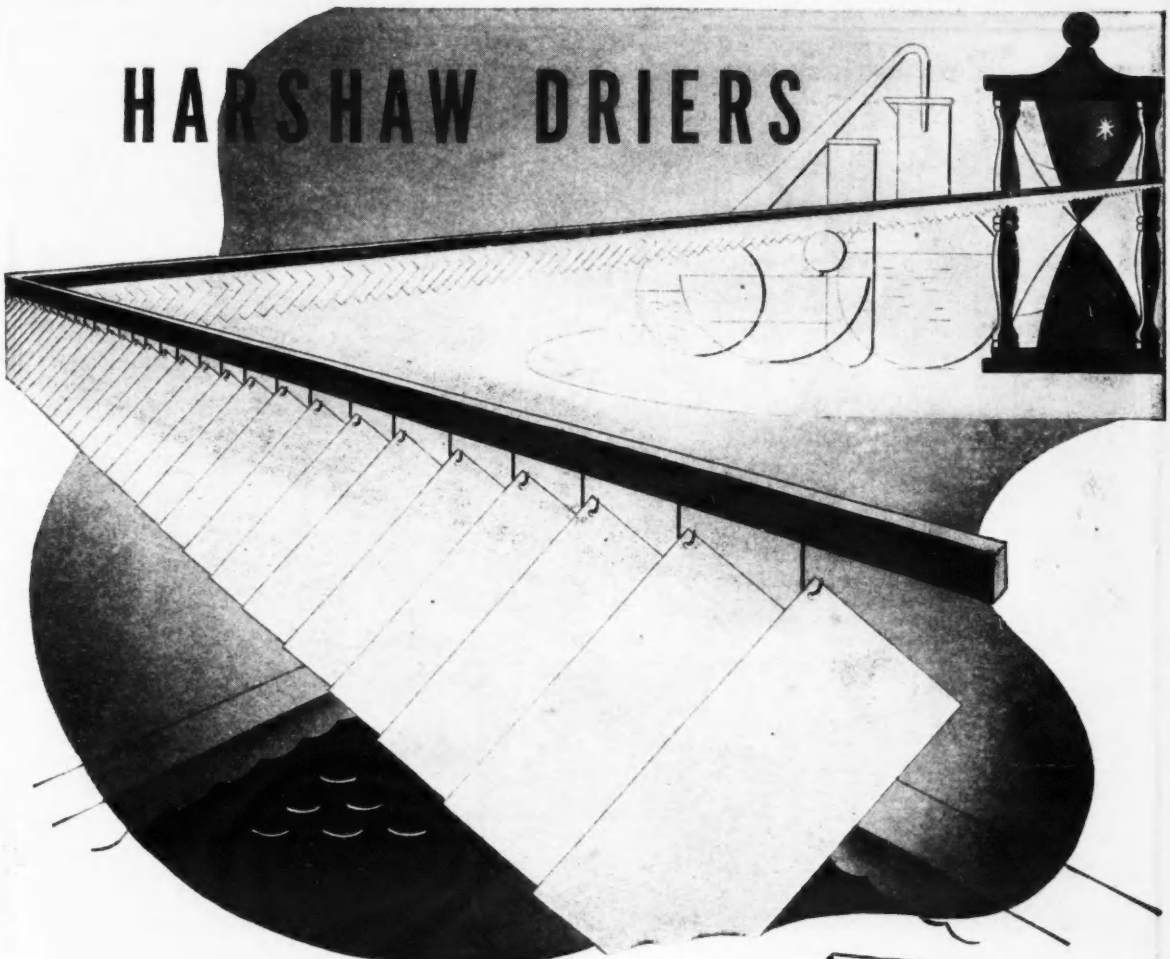
Hide, 100-121 (jelly test in grams), bgs., c.l., dlvd.	lb.	.21	- —
122-149, bgs., c.l., dlvd.	lb.	.22	- —
150-177, bgs., c.l., dlvd.	lb.	.23	- —
178-206, bgs., c.l., dlvd.	lb.	.24	- —
207-236, bgs., c.l., dlvd.	lb.	.25	- —
237-266, bgs., c.l., dlvd.	lb.	.26	- —
267-298, bgs., c.l., dlvd.	lb.	.27	- —
299-330, bgs., c.l., dlvd.	lb.	.28	- —
331-362, bgs., c.l., dlvd.	lb.	.29	- —
363-394, bgs., c.l., dlvd.	lb.	.30	- —
395-427, bgs., c.l., dlvd.	lb.	.31	- —
428-460, bgs., c.l., dlvd.	lb.	.32	- —
461-494, bgs., c.l., dlvd.	lb.	.33	- —
495-529, bgs., c.l., dlvd.	lb.	.34	- —

Hide glue l.c.l., prices 1c. higher than c.l. bbls., ½c. over bgs.

Glycerin, crude, saponification, 88%, to refiners, tanks	lb.	.45	- .60
soaplye, 80%, tanks	lb.	.35	- .50
dynamite, dms., c.l.	lb.	.55½	- .75½
l.c.l.	lb.	.55½	- .75½
tanks	lb.	.55	- .75
high gravity, dms., c.l.	lb.	.55½	- .75½
l.c.l.	lb.	.55½	- .75½
tanks	lb.	.55	- .75
refined, B.P., 98%, dms., c.l.	lb.	.55½	- .75½
tanks	lb.	.55½	- .75½
USP, 95%, dms., c.l.	lb.	.55½	- .75½
l.c.l.	lb.	.55½	- .75½
tanks	lb.	.55	- .75
yellow, distilled, dms., c.l.	lb.	.55	- .75
tanks	lb.	.55	- .75
Glycine, USP (see Acid, ammocetic).			
Glycol, boriborate, dms	lb.	.22	- —
Stearate, dms.	lb.	.26	- —
Gold chloride, acid-brown, bots.	os.	20.00	-20.50
acid-yellow, bots.	os.	18.75	-19.00
Gold-soda chloride, photo, bots.	os.	13.00	-13.50
USP IX, bots.	oz	14.00	-14.50
Goldenseal roots, bls.	lb.	8.50	- 8.75
pwd., bxs.	lb.	9.00	- 9.25
Gold of pleasure, seed, bgs.	lb.	No stocks.	
Grains of paradise, bgs	lb.	.31	- .32
Graphite, flotn., crystalline, 80% through 50 mesh, graphitic carbon content 65-70%, bgs., whse.	lb.	.04½	- —
70-75%, bgs., same basis.	lb.	.05	- —
75-80%, same basis	lb.	.05½	- —
80-85%, bgs., same basis,	lb.	.06	- —
85-90%, bgs., same basis.	lb.	.07	- —
90% and up, same basis.	lb	.08	- —
Imported, amorphous, powd., dlvd.	lb.	.04	- .06
crystalline, 88-90%, powd., same basis.	lb	.14	- .16
90-92%, powd., same basis.	lb.	.16	- .19
97% powd., same basis.	lb.	.22	- .25
flake, No. 1, 90-95%, 200-lb. crtns, same basis.	l.c.	.21	- .22
No. 2, same basis	lb.	.22	- .24
Grease, house, loose	lb.	.21½	- —
yellow, loose	lb.	.21¾	- —
white, choice, loose	lb.	.22	- —
Wool (see Adeps lanae and Degras).			
Green, brilliant, thioflavin toner molybdic, kegs, works	lb.	3.25	- —
tungstic, kgs., works	lb.	3.75	- —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis.	lb.	.31	- —
6-10%, bbls., same basis.	lb.	.32	- —
11-15%, bbls., same basis.	lb.	.33	- —
16-20%, bbls., same basis.	lb.	.33½	- —
21-25%, bbls., same basis.	lb.	.34½	- —
26-30%, bbls., same basis,	lb.	.34¾	- —
31-35%, bbls., same basis.	lb.	.35½	- —
36-40%, bbls., same basis.	lb.	.37½	- —
41-45%, bbls., same basis.	lb.	.39	- —
46-50%, bbls., same basis.	lb.	.40¾	- —
50% and over, bbls., same basis.	lb.	.41¾	- —
reduced color, 5% bbls., same basis.	lb.	.10	- —
6-10%, bbls., same basis.	lb.	.10¾	- —
11-13%, bbls., same basis.	lb.	.11¼	- —
14-16%, bbls., same basis.	lb.	.12	- —
17-19%, bbls., same basis.	lb.	.12¼	- —
20-21%, bbls., same basis.	lb.	.12½	- —
22-23%, bbls., same basis.	lb.	.12¾	- —
24-25%, bbls., same basis.	lb.	.13	- —
26-27%, bbls., same basis.	lb.	.13½	- —
28-29%, bbls., same basis.	lb.	.14	- —
30-31%, bbls., same basis.	lb.	.15	- —
32-33%, bbls., same basis.	lb.	.16¼	- —
34-35%, bbls., same basis.	lb.	.17¼	- —
36-40%, bbls., same basis.	lb.	.20	- —
41-45%, bbls., same basis.	lb.	.22¼	- —
46-50%, bbls., same basis.	lb.	.22¾	- —
51-55%, bbls., same basis.	lb.	.23½	- —
56-60%, bbls., same basis.	lb.	.24	- —
61-65%, bbls., same basis.	lb.	.25	- —
66-70%, bbls., same basis.	lb.	.26¼	- —
Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1½c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City and Wichita, prices are equalized with Chicago.			
Chrome oxide, pure, bgs., works.	lb.	.30	- .33
Malachite, thioflavin, toner, molybdic, bbls., works	lb.	3.00	- —
tungstic, bbls., works	lb.	3.50	- —
Phthalocyanin, tetrahydroxide (hydrated chromium oxide), bbls., works	lb.	.85	- —
toner, bbls., works	lb.	4.00	- 5.00
Paris (see P).			
Tungstated, brilliant, kgs	lb.	3.00	- 4.00
emerald, kgs	lb.	2.60	- —
Verdigris (see V).			
Green dyes (see Dyes, coaltar).			
Grindelia robusta, bls	lb.	.30	- .35
Guaiac, resin, cs	lb.	.32	- .34
Wood, bls	lb.	.35	- .36
Guaiacol, cryst., N.F., tins	lb.	1.75	- —
Liquid, N.F., bots., cbys	lb.	1.80	- —
Carbonate, dms.	lb.	2.85	- —
Guarana, powd., cs	lb.	2.00	- 2.10
Gum accroides (see Gum, yacca).			
Aloe (see A).			
Arabic, amber, sorts, bgs	lb.	.14½	- .15
white, sorts, 1. bgs	lb.	.28	- .29
Ammoniac, tears, cs	lb.	.90	- .95
Asafetida (see A).			
Asphaltum (see A)			
Benzoin, Sumatra, cs	lb.	.70	- .75
Camphor (see C).			
Copal, Congo, bgs	lb.	No prices	
East India, bgs	lb.	No prices	
Manila, baskets	lb.	No prices	
Dammar, cs	lb.	No prices	
Elemi, cns	lb.	No prices	
Ester, gum-resin type, dms., c.l., dlvd., Ill., Ind., Ky., Mich., Mid-Atl. States, N. England States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va any quantity.		.20	- —
wood-resin type, dms., any quantity, dlvd. Ill., Ind., etc.	lb.	.19	- —
Euphorbium, cs	lb.	1.50	Nom.
Galbanum, cs	lb.	.95	- 1.00
Gamboge, pipes, cs	lb.	2.40	- 2.50
powd., bbls	lb.	2.50	- 2.60
Ghatti, bgs	lb.	No stocks	
Guaiac (see Guaiac resin).			
Karaya, bbls., bxs., dms	lb.	.21	- .30
Kauri, cs	lb.	No prices	
Locust bean, powd., bbls	lb.	.50	- .60
Gum, mastic, cs	lb.	2.75	- 3.00
Myrrh, cs	lb.	.48	- .50
Olibanum, siftings, cs	lb.	.12	- .13
tears, cs	lb.	.27	- .45
Opium (see O).			
Red (see Gum yacca).			
Rosin (see R).			
Sandarac, bgs	lb.	.90	- .95
Scammony, cs	lb.	1.50	- 1.55
Taiba, bgs	lb.	.10	- .11
Tragacanth, No. 1, cs	lb.	4.00	- 5.00
No. 2, cs	lb.	3.25	- 3.50
No. 3, cs	lb.	2.25	- 2.50
Yacca, bgs	lb.	No prices	
Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald.	ton.	22.65	- —
Harlem River, N. Y., frt. equald.	ton.	28.25	- —
Medicine Lodge, Kans., frt. equald.	ton.	17.00	- —
New Brighton, N. Y., frt. equald.	ton.	30.65	- —
Southard, Okla., frt. equald.	ton.	17.00	- —
Sweetwater, Tex., frt. equald.	ton.	21.45	- —
Plaster of Paris, paper bgs., c.l., Acme, Texas, frt. equald.	ton.	12.50	- —
Blue Rapids, Kans., frt. equald.	ton.	10.50	- —
Harlem River, N. Y., frt. equald.	ton.	12.00	- —
Medicine Lodge, Kan., frt. equald.	ton.	12.50	- —
New Brighton, N. Y., frt. equald.	ton.	13.00	- —
Southard, Okla., frt equald.	ton.	12.50	- —
Sweetwater, Tex., frt. equald.	ton.	12.50	-
Gypsum, stucco, paper bgs., c.l., Acme, Texas; Akron, N. Y.; Blue Rapids, Kans.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich; Gypsum, Ohio; Harlem River, N. Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Ga.; Portsmouth, N. H.; Roton, Tex.; Southard, Okla.; Sweetwater, Tex.; frt. equald.	ton.	8.00	- —
Saltville, Va., frt. equald.	ton.	9.00	- —
Terra alba, paper bgs., c.l., Harlem River, N. Y.; works	ton.	22.50	- —
New Brighton, N. Y., same basis	lb.	21.00	- —

H

Hawthorn berries, bgs	lb.	.60	- .65
Heliotropin, cryst., cns	lb.	2.95	- 4.00
Hellebore, white, powd., bbls.	lb.	.46	- .47
Helonias root, bls	lb.	2.25	- 2.50
Hematine extract, cryst., No. 0, bbls., l.c.l.	lb.	.44	- —
No. 1, bbls., l.c.l.	lb.	.42	- —
No. 1A, bbls., l.c.l.	lb.	.40	- —
No. 2, bbls., l.c.l.	lb.	.39	- —
No. 3, bbls., l.c.l.	lb.	.37	- —
No. 4, bbls., l.c.l.	lb.	.35	- —
No. 5, bbls., l.c.l.	lb.	.30	- —
Hematine paste, No. 1, bbls., l.c.l.	lb.	.18½	- —
No. 2, bbls., l.c.l.	lb.	.17½	- —
No. 3, bbls., l.c.l.	lb.	.16¼	- —
red, No. 4, bbls., l.c.l.	lb.	.12	- —
Hemlock bark extract, 25% tan, bbls., c.l., works	lb.	No stocks	
tanks, works	lb.	No stocks	
Henbane leaves, bls	lb.	1.25	- 1.75
Henna leaves, bls	lb.	.29	- .30
powd., bbls., bxs	lb.	.34	- .36
Heptane, industrial grade, 90°-100° C., dms., c.l., Group 3,	gal.	.13½	- —
l.c.l., Group 3	gal.	.19	- —
tanks, Group 3	gal.	.10½	- —
77°-115° C., dms., c.l., Group 3.	gal.	.13½	- —
l.c.l., Group 3.	gal.	.19	- —
tanks, Group 3	gal.	.10½	- —
laboratory grade, dms., c.l., Group 3.	gal.	.16	- —
l.c.l., Group 3	gal.	.29	- .35
Hexalin (see cyclohexanol).			
Hexaethyl tetraphosphate, cns., works.	lb.	1.25	- —
dms., c.l., works	lb.	.80	- —
l.c.l., works	lb.	.90	- 1.00
Hexamethylenetetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C.	lb.	.24	- —
smaller lots, same basis.	lb.	.25	- —
USP, dms., 500 lbs or more, same basis.	lb.	.35	- —
smaller lots, same basis.	lb.	.36	- —
Hexane, 60°-70° C., industrial grades, dms., c.l., Group 3.	gal.	.14¼	- —
l.c.l., Group 3	gal.	.19	- —
tanks, Group 3	gal.	.11¼	- —
laboratory grade, dms., c.l., Group 3.	gal.	.16	- —
l.c.l., Group 3	gal.	.29	- .35
Hexanol, normal, dms., l.c.l., works.	lb.	.25	- —
Homatropine hydrobromide, bots.	oz.	15.00	-25.00
Hydrochloride, bots	os.	20.00	-22.00



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Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago..unit-ton. 8.00 - —
Hops, NF, bls.....lb. .55 - 1.30
Horehound, bls.....lb. .12½- .13
Hydrangea, root, bls.....lb. .22 - .25
Hydrastine, alkaloid, bots....oz.20.00 -22.00
Sulphate, bots.....oz.29.00 -32.00
Hydrastinine, 10-gr. bots....bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide, dms., fib. cns., works..lb. .30 - .40
Hydrogen peroxide, USP, bbls. lb. .03¾- .04
100 vols., cbys., E. of Miss. River or West coast via Panama Canal..lb. .15½- .18½
Hydroquinine bbls., dms.....lb. .90 - .94
Hydroxycitronellal, cns.....lb.16.50 -21.00
dms., extra, ret'able, dlvd..lb.16.00 —
Hyoscine hydrobromide, bots..oz.39.00 -45.00
Hyoscyamine, bots.....oz.18.00 -20.00
Hydrobromide, bots.....oz.18.00 -19.50
Sulphate, bots.....oz.14.00 -19.50
Hypernic extract, cryst., No. 1, bbls., l.c.l..lb. .51 - —
No. 2, bbls., l.c.l.....lb. .43 - —
liquid, No. 1, bbls., l.c.l..lb. .28 - —
No. 2, bbls., l.c.l.....lb. .23 - —
solid, No. 1, bxs., l.c.l....lb. .40 - —
Hyssop herb, bgs.....lb. .55 - .60
leaves, bgs.....lb. .70 - .87

I

Iceland moss, bgs.....lb. .50 - .52
Ichthammol, NF, bots.....lb. 2.45 - —
Indian red (see Red, Indian).
Indigo, nat., chests.....lb. 2.14 - 2.30
synth., paste, bots.....lb. .16½- .19
powd., bbls.....lb. .74½- .85
Indol, CP, bots.....lb.19.00 -23.00
Inositol, tins, works.....lb. 5.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, 150-lb. kgs., ex whse., Staten Island..lb. 1.729 - —
resubl., 5-lb. bots., jars.....lb. 2.10 - 2.20
Iodoform, 100-lb. dms., kgs....lb. 4.45 - —
Ionone, ketone, bot.....lb. 6.00 -14.00
Methyl, bot.....lb. 6.25 -16.85
Ipecac root, bgs.....lb. 6.00 - 6.25
powd., bgs.....lb. 6.25 - 6.50
Irish moss, bleached, prime...lb. .25 - .30
Iron acetate, liquor, bbls., c.l., dlvd..lb. .17 - —
l.c.l., dlvd.....lb. .18 - —
solut., USP IX, 100-lb. cbys.lb. .17 - —
50-lb. djns.....lb. .18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works.100 lbs. 4.90 - 5.25
l.c.l., works.....100 lbs. 6.50 - 6.85
cryst., tech., bbls., works, frt. alld..100 lbs. 4.00 - 6.00
USP X, lump, bbls.....lb. .07 - .08½
solut., 42 Be, cbys., works, frt. alld. or equald..lb. .05½- .06
djns., same basis.....lb. .10 - —
Citrate, gran., dms.....lb. .72 - .74
Glycerophosphate, N.F., powd. lb. 4.35 - —
Hypophosphite, bbls., dms...lb. 1.50 - 1.52
Iodide, bots.....lb. 3.48 - 3.63
Naphthenate, 6% Fe, 50-gal. dms..lb. .19½- —
Nitrate, red, tech., dms.....lb. .03½- .04
Oxalate, gran., dms.....lb. .33 - .35
powd., cns.....lb. .52 - —
kgs.....lb. .47 - .49
Phosphate, soluble, NF, gran., cs..lb. .54 - .57
Pyrophosphate, NF, gran., soluble, dms..lb. .59 - .62
Reduced, 90%, kgs.....lb. .65 - .75
Resinate, 7.4%, Fe, 100-lb. dms. lb. .22 - —
Stearate, dms., c.l.....lb. .53 - —
ton lots.....lb. .54 - —
less ton lots.....lb. .55 - —
Sulphate (ferric), anhyd., bgs., c.l., works..ton.35.00 - —
l.c.l., works.....ton.40.00 - —
partially hydrated, bgs., c.l., works..ton.26.50 - —
(ferrous) tech. (see Copperas).
USP, cryst., bbls., dms...lb. .06 - .08
Iron-ammonia citrate, brown, green, gran., dms..lb. .40 - .43
Oxalate, bbls.....lb. .23½- —
dms., kgs.....lb. .25½- .26½
Iron-soda oxalate, bbls., dms.lb. .25½- .26½
Isobornyl acetate, cns., works.lb. .80 .95
Isobornyl thiocyanoacetate, dms., c.l., works..gal. 4.35 - —
l.c.l., works.....gal. 4.45 - 4.55
tanks, works.....gal. 4.23 - —
Isobutyl acetate, cns.....lb. 1.05 - 1.10
Propionate, cns.....lb. No prices
Isobutyraldehyde, dms., works.lb. .33 - —
10-gallon lots, works.....lb. .36 - —
Isoeugenol, extra cns.....lb. 3.75 - 4.35
Isopentane, dms., works.....lb. .45 - .55
Isophorone, dms., c.l., works..lb. .21 - —
l.c.l., works.....lb. .22 - —
tanks, works.....lb. .20 - —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., c.l., E. of Rockies, frt. alld..lb. .1180- —
l.c.l. E. of Rockies, same basis..lb. .1210- —
tanks, E. of Rockies, same basis..lb. .1100- —
Alcohol (see Alcohol, Isopropyl).
Ether, dms., c.l., dlvd.....lb. .06 - —
l.c.l.....lb. .06¼- —
tanks, dlvd.....lb. .04¼- —
Isopropylamine, dms., works..lb. .25 - —

J

Jaborandi leaves, bls.....lb. .25 - .28
Jalap root, NF, bls.....lb. .45 - .50
powd., bbls., bxs.....lb. .55 - .60
Resin, lump, cns.....lb. 5.85 - —
powd., bxs.....lb. 5.90 - —
Juniper berries, bgs.....lb. .17 - .20
Juniper tar, USP, dms.....lb. .68 - 1.00

K

Kamala, powd., cns.....lb. .46 - .48
Kaolin (see China clay).
Kava kava root, bls.....lb. .35 - .40
Kerosene, at refinery; Ark., 42-44 w.w., tanks..gal. .06625- .07125
Bayonne, 41-43, w.w., tanks, gal. .061 - —
California, 40-43, w.w., tanks, gal. .0700- —
Gulf ports, 41-43 w.w., tanks, gal. .0600- .0650
Okla.-Tex., 41-43 w.w., tanks, gal. .06625- .0700
Penn., 45 w.w., tanks....gal. .0725- .0775
47 w.w., tanks.....gal. .07625- .0800
Kola nuts, bgs.....lb. .10 - .11
Kyanite, imp., low iron content, 10-mesh, whse..ton.85.00 -95.00
calcined, grain, 10-mesh, whse. ton.95.00 -105.00

L

Ladyslipper root, bls.....lb. 1.35 - 1.40
Lanolin (see Adeps lanae).
Lard, cash, Chicago, tcs.....lb. .32 - .32½
Larkspur seed, bgs.....lb. .65 - .70
Laurel berries, bls.....lb. .25 - .26
Leaves, Algerian, bls.....lb. .12 - .13½
Cyprus, bls.....lb. .26 Nom.
Greek, bls., futures.....lb. .20 - .21
Italian, bls.....lb. .12 - .13½
Portuguese, choice, bls.....lb. .17 - .17½
ordinary, bls.....lb. .13½- .14
Turkish, bls.....lb. .15 - .15½
Lavender flowers, medium, bls.lb. .60 - .65
ordinary, bls.....lb. .35 - .45
select, bls.....lb. .65 - .70
Lead, acetate, white, broken, bbls..lb. .18½- —
cryst., bbls.....lb. .19¼- —
gran., powd., bbls.....lb. .19¼- —
Arsenate, basic powder, 2-lb. bgs. or larger, c.l..lb. .21¾- —
l.c.l.....lb. .22¾- .23¾
1-lb. bags, c.l.....lb. .29¼- —
l.c.l.....lb. .30¼- .31¼
Lead arsenate prices are works or whse. basis, frt. alld. on 96 lbs. or more to dest. East.
Blue, basic sulphate, bbls., c.l., 20-ton lots, f.o.b. ship't pt, frt. alld..lb. .15¼- —
l.c.l., works.....lb. .15½- —
Carbonate (see Lead, white).
Chloride, fib. dms.....lb. .49 - —
Iodide, NF V, jars.....lb. 2.94 - —
Linoleate, solid, 13%, bbls...lb. .41¾- —
Metal (see Protective Coatings Materials market).
Metallic paste, dms., works..lb. No stocks
Naphthenate, 21% Pb, liquid, dms..lb. .20½- —
30% Pb, liquid, dms.....lb. .24¾- —
37% Pb, solid, dms.....lb. .27½- —
Nitrate, bbls., l.c.....lb. .17¾- —
l.c.l.....lb. .18 - —
Oleate, bbls.....lb. .17¼- —
Peroxide, powd., tech., bbls., lb. .23 - .24
Red, 95% Pb_3O_4 or less, bbls., c.l. (20 tons), f.o.b. ship't point, frt. alld..lb. .1760- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld..lb. .1800- —
smaller lots, f.o.b. ship't point, frt. alld..lb. .1850- —
in oil, kgs.....lb. .2075- —
97% Pb_3O_4, bbls., c.l. (20 tons), f.o.b. ship't point, frt. alld..lb. .1765- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld..lb. .1825- —
smaller lots, f.o.b. ship't point, frt. alld..lb. .1875- —
98%Pb_3O_4, bbls., c.l., (20 tons), f.o.b. ship't point, frt. alld..lb. .1810- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld..lb. .1850- —
smaller lots, f.o.b. ship't point, frt. alld..lb. .1900- —
Resinate, precip., 23.8% Pb dms..lb. .25 - —
Silicate, bgs.....lb. .17 - .17½
Soyate, 20.15% Pb., dms....lb. .22¼- —
Stearate, bbls., c.l.....lb. .55 - —
ton lots.....lb. .56 - —
less ton lots.....lb. .57 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Tallate, 16% Pb, liquid, dms., lb. No prices
50% Pb, solid, dms.....lb. No prices
Titanate, bgs., bbls., c.l., l.c.l., 6 tons, one delivery, E. frt. alld..lb. .11¼- —
Pac. Cst., ex whse....lb. .11¾- —
smaller lots, E. frt. alld. lb. .11¼- —
Pac. Cst., ex whse...lb. .11¾- —
White, basic carbonate, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .15¾- —
l.c.l., works.....lb. .16 - —
basic sulphate, bbls., c.l., f.o.b. ship't point, frt alld..lb. .15¼- —
l.c.l., works.....lb. .15½- —
in oil, consumers, kgs....lb. .27 - —
painters, kgs.....lb. .25¾- —
Lecithin, edible, dms., c.l....lb. .36 - —
l.c.l.....lb. .38½- .39½
tech., dms., c.l.....lb. .36 - —
l.c.l.....lb. .38½- .39½
Lemon peel, bls.....lb. .35 - .40
Licorice extract, mass, cns....lb. .40 - .42
powd., bbls.....lb. .60 - .62
Root, natural, bls.....lb. .12 - .14
powd., bbls.....lb. .18 - .20
5-lb. bundles, cs.....lb. .65 - .68
Lignin extract, tanning grade, bgs., c.l., works..lb. .04¾- —
Lime, agricultural, bulk, works. tons. 9.00 - 9.50
Chemical (quicklime), lump, pebble, Adams, Mass..ton. 9.00 - —
Annville, Pa.....ton. 8.50 - —
Bellefonte, Pa.....ton. 8.50 - —
Berkeley, W. Va....ton. 8.50 - —
Buffalo, N. Y.....ton.10.25 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa...ton. 9.00 - —
Crab Orchard, Tenn..ton. 7.90 - —
Eagle Mountain, Va..ton. 8.50 - —
Farnams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio....ton. 7.50 - —
Hannibal, Mo.....ton. 7.50 - —
Keystone, Ala.....ton. 7.90 - —
Knoxville, Tenn.....ton. 7.90 - —
Limedale, Ark.....ton. 8.00 - —
Longview, Ala.....ton. 7.90 - —
Manistique, Mich....ton. 8.00 - —
Marblehead, Ohio....ton. 8.50 - —
Martinsburg, W. Va..ton. 8.50 - —
Menominee, Mich....ton. 8.00 - —

STEEL DRUMS
for the
SOUTHEAST

Manufactured from U. S. Steel

FLORIDA DRUM CO., INC.
Plant and Office Pensacola, Florida

Lime, chemical (quicklime) lump or pebble, Mitchell, Ind. ton. 7.50 - —
Newala, Ala. ton. 7.90 - —
Ripplemead, Va. ton. 8.50 - —
Riverton, Va. ton. 8.50 - —
Rockland, Maine. ton. 8.00 - —
Scioto, Ohio. ton. 8.50 - —
Sherwood, Tenn. ton. 8.39 - —
Sherwood, Wisc. ton. 8.50 - —
Springfield, Mo. ton. 8.00 - —
Woodville, Ohio. ton. 8.50 - —
York, Pa. ton. 8.50 - —

Hydrated, paper bgs., Adams, Mass. ton. 11.25 - —
Annville, Pa. ton. 11.00 - —
Bellefonte, Pa. ton. 11.00 - —
Berkeley, W. Va. ton. 10.00 - —
Buffalo, N. Y. ton. 11.00 - —
Carey, Ohio. ton. 8.50 - —
Cedar Hollow, Pa. ton. 11.00 - —
Crab Orchard, Tenn. ton. 10.65 - —
Eagle Mountain, Va. ton. 10.00 - —
Farnams, Mass. ton. 11.00 - —
Gibsonburg, Ohio. ton. 9.50 - —
Hannibal, Mo. ton. 9.50 - —
Keystone, Ala. ton. 11.65 - —
Knoxville, Tenn. ton. 10.65 - —
LeRoy, Minn. ton. 10.00 - —
Limedale, Ark. ton. 10.00 - —
Longview, Ala. ton. 11.65 - —
Manistique, Mich. ton. 9.50 - —
Marblehead, Ohio. ton. 10.50 - —
Martinsburg, W. Va. ton. 8.50 - —
Mitchell, Ind. ton. 10.00 - —
Newala, Ala. ton. 11.65 - —
Petoskey, Mich. ton. 10.00 - —
Port Island, Mich. ton. 9.00 - —
Rapid City, S. Dak. ton. 12.00 - —
Ripplemead, Va. ton. 10.00 - —
Rockland, Maine. ton. 9.00 - —
Scioto, Ohio. ton. 8.00 - —
Sherwood, Tenn. ton. 12.14 - —
Sherwood, Wis. ton. 10.00 - —
Springfield, Mo. ton. 9.00 - —
Woodville, Ohio. ton. 8.50 - —
York, Pa. ton. 11.00 - —

Lime, spray, Adams, Mass., paper. ton. 11.00 - —
Annville, Pa. ton. 11.00 - —
Bellefonte, Pa. ton. 11.00 - —
Carey, Ohio. ton. 11.00 - —
Farnams, Mass. ton. 9.50 - —
Gibsonburg, Ohio. ton. 10.00 - —
Marblehead, Ohio. ton. 10.00 - —
Rockland, Maine. ton. 10.00 - —
Scioto, Ohio. ton. 10.00 - —
Woodville, Ohio. ton. 10.00 - —
York, Pa. ton. 11.00 - —

Lime salts (see Calcium).

Lime-ammonia-nitrogen[a] 20.5% N. (see Ammonia nitrate-limestone).

Limestone, ground, bulk, works.. ton. 1.40 - —

Linalool lb. 6.75 - 7.60

Linalyl acetate, ex bois de rose, bots. lb. 8.50 - —
ex lignaloe wood, bots. lb. 7.75 - 8.40
ex petitgrain, bots. lb. 5.15 - 6.90

Linden flowers with leaves, bls. lb. .40 - .42
without leaves, bls. lb. .55 - .58

Linseed meal, 34%, bulk, mills. ton. 82.00 -83.00

Litharge, com'l, powd., bbls., c.l., f.o.b. ship't point, frt. alld. lb. .1660- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld. lb. .17 - —
smaller lots, f.o.b. ship't point, frt. alld. lb. .17½- —

Lithium bromide, bbls., 100-lb. lots, works, frt. equald. ton. 1.90 - —

Carbonate, NF, bbls., kgs. lb. 1.15 - —
Chloride, jars. lb. 1.15 - 1.65
Citrate, bbls., dms., kgs. lb. 1.30 - 1.45
Fluoride, bbls. lb. 1.90 - —
Hydroxide, jars. lb. 1.15 - 1.25

Lithopone, ordinary, bgs., c.l., (20 tons). lb. .05½- —
l.c.l. lb. .05¾- —
bbls., c.l. lb. .05¾- —
l.c.l. lb. .06 - —
Titanated (high-strength), bgs. lb. .07¼- —
smaller lots. lb. .07½- —
bbls., c.l. lb. .07½- —
smaller lots. lb. .07¾- —
Lithopone, c.l., divd. Pac. Cst., ¼c. higher; l.c.l., ex whse. Pac. Cst. ½c. higher.

Liverwort leaves, bls. lb. .75 - .90

Lobelia herb, bls. lb. .80 - .85

Lobeline sulphate, bots., wks. oz. 25.50 -38.00

Logwood extract, crystals, No. 1, bbls., l.c.l. lb. .37 - —
No. 2, bbls., l.c.l. lb. .35 - —
liquid, No. 1, bbls., c.l. lb. .18 - —
No. 2, bbls., l.c.l. lb. .17 - —
No. 3, bbls., l.c.l. lb. .16½- —
No. 4, bbls., l.c.l. lb. .16 - —
solid, No. 1, bxs., l.c.l. lb. .32 - —
No. 2, bxs., l.c.l. lb. .30 - —
No. 4, bxs., l.c.l. lb. .27½- —
No. 5, bxs., l.c.l. lb. .25½- —
No. 6, bxs., l.c.l. lb. .43½- .45½

Lovage root, imported bls. lb. 1.20 - 1.25

Lupulin, NF, tin. lb. 10.00 -11.00

Lycopodium, USP, cs. lb. 2.50 - 3.00

M

Mace, Banda, cs. lb. No stocks
East Indian, bgs., futures. lb. 1.60 - 1.65
West Indian, bgs., futures. lb. 1.55 - 1.60
Broken, bgs., futures. lb. 1.40 - 1.50

Madder, Dutch, bgs. lb. .34 - .35

Magnesia arsenate, bgs., cans, works. lb. .20 - .30
Calcined, tech., bbls., works, lb. .29 - —
USP, works. lb. .31 - .33
Carbonate, tech., bgs., c.l., frt. equald. lb. .07¼- —
l.c.l., frt. alld. lb. .08¼- —
bbls., c.l., frt. equald. lb. .06½- —
l.c.l., frt. alld. lb. .09½- —
kgs., c.l., frt. equald. lb. .09¾- —
l.c.l., frt. alld. lb. .10¾- —
USP, bgs., c.l., frt. equald. lb. .09 - —
l.c.l., frt. alld. lb. .10 - —
bbls., c.l., frt. equald. lb. .09½- —
l.c.l., frt. alld. lb. .10½- —
kgs., c.l., frt. equald. lb. .10¾- —
l.c.l., frt. alld. lb. .11¾- —

Magnesia carbonate is quoted frt. alld. to N. J., except to Atlanta, Burlington, Cape May, Cumberland, Glostershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald. to N.Y.C. on all other destinations.

Chloride, anhyd., bbls., divd. lb. .12¾- —
flake, bbls., c.l., works. ton. 37.00 - —
l.c.l., works. ton. 44.00 -46.00
Fluoride, bbls. lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs. lb. .29 - .30
Hypophosphite,, cns. lb. 1.45 - —
Laurate, bbls. lb. .33 - .38
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works. lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls. lb. .62 - .67
Silicate (see Talc).
Silicofluoride, bbls. lb. .14 - .15

Magnesia stearate, ctns., 2,000 lbs. to c.l. lb. .55 - —
smaller lots. lb. .56 - —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000-lb. contracts. lb. .37 - —
smaller lots. lb. .42 - —

Magnesite, cal., powd., bgs., c.l., mines, Calif. ton. 58.75 - —
dead-burnt, bulk, c.l., Chewelah, Wash. ton. 22.00 -32.00

Maleic anhydride, dms., c.l. lb. .25 - —
l.c.l. lb. .26 - —

Malva flowers, black, bls. lb. No stocks
blue, bls. lb. 1.50 - 1.55
Leaves, bls. lb. .40 - .41

Manaca root, bls. lb. .49 - .50

Mandrake root, bls. lb. .40 - .45

Manganese acetate, dms. lb. .25½- —
Arsenate, bgs. lb. .12 - .12¾
Borate, tech., bbls. lb. .16 - .18
Carbonate, bbls. lb. .19 - —
Chloride, anhyd., bbls., wks. lb. .14 - .16
Dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works. ton. 74.00 - —
smaller lots, works. ton. 77.00 -82.00
85-90%, bbls., c.l., works. ton. 74.00 - —
smaller lots, works. ton. 77.00 -82.00
84-87%, burlap bgs., c.l., works. ton. 71.75 - —
l.c.l., works. ton. 74.75 -79.79
paper bgs., c.l., works. ton. 70.00 - —
l.c.l., works. ton. 73.00 - —
Glycerophosphate, fib. dms. lb. 4.25 - —
Hydrate, bbls., divd. lb. .26 - —
Iodide, bots. lb. 5.70 - —
jars lb. 5.55 - —

Manganese linoleate, liquid, 4%, dms. lb. .42¾- —
solid, precip., 8.2%, bbls. lb. .44¾- —
Naphthenate, 6% Mn, liquid, dms. lb. .21 - —
10% Mn, solid, dms. lb. .33¼- —
Resinate, fused, 3½%, bbls. lb. .09 - .10½
precip., dms. lb. .20 - —
Soyate, 8.2% Mn, dms. lb. .22 - —
Sulphate, anhyd., dms., works. lb. No stocks
feed grade, 77-80%, bgs. lb. .04 - .06
fertilizer grade, 65%, bgs., c.l., divd. East. ton. 56.00 - —
l.c.l., same basis, or Balto. or Cincinnati... ton. 63.00 - —
industrial grade, 80%, bgs. lb. .05 - .05¾
75%, bgs., c.l., divd. East. ton. 64.50 - —
l.c.l., same basis. ton. 71.50 - —
Tallate, 4% Mn, liquid, dms. lb. No prices
8% Mn, solid, dms. lb. No prices
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock, U. S. ports. ton. 60.00 -62.00

Manna, flake, large, cs. lb. 1.50 - 1.55
small, cs. lb. No stocks

Mannitol, com'l, bbls., works. lb. .38 - .43
reagent, cs. or multiples, works. lb. .85 - —

Marjoram, Argentine, bls. lb. .14 Nom.
Chilean, bls. lb. .10 - .10½
futures, bls. lb. .10¼- .10¾

Matico leaves, bls. lb. .15 - .15½

Menadione, USP, bots., works. gram. .10 - —

Menthol, natural, USP, Brazilian, cns. lb. 8.25 - 8.50
synthetic, tech., cns. lb. No prices
USP, laevo, cns. lb. No prices
racemic, cns. lb. 7.25 - 7.80

Menthyl salicylate, tins. lb. 3.00 - 3.10

Mercurial ointment, USP, mild, 10%, dms. lb. .70 - .72
strong, dms. lb. 1.68 - 1.70

Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms. lb. 2.33 - 2.35
Chloride (see Calomel).
Cyanide, cryst., powd. lb. 3.54 - 3.59
Iodide, red, NF, dms. lb. 4.32 - —
yellow, NF, fib. dms. lb. 4.42 - —
Oxide, red, NF (see Red precipitate).
yellow, USP, fib. dms. lb. 2.74 - 2.76
tech. (see Yellow, mercury oxide).

Mesityl oxide, dms., c.l., divd. lb. .13 - —
l.c.l., divd. lb. .13½- —
tanks, divd. lb. .11½- —

Metal leaf, composition, 5½x5½ in. pkg. No stocks
Gold X-F, deep, 23, 3⅜x3⅜ in., pkg. No stocks
Silver, 3⅜x3⅜ in. pkg. No stocks

Metanitroparatoluidin, bbls. lb. 1.16 - 1.21

Metaphenylenediamine, kgs. lb. .72 - —

Metatoicylenediamine, kgs. lb. .77 - —

Methanol, natural, Group A, all grades, dms., extra, c.l., E. of Miss R. gal. .62 - —
l.c.l., same basis. gal. .73 - —
tanks, same basis. gal. .60 - —
Group B, all grades, dms. incl. c.l., frt. alld. gal. .67 - —
l.c.l., same basis. gal. .78 - —
tanks, same basis. gal. .60 - —

Prices on natural methanol W. of Miss. R., 3c. higher.

synthetic, dms., c.l., Zone 1, frt. alld. gal. .34½- —
2, frt. alld. or divd. gal. .37½- —
3, frt. alld. gal. .41½- —
4, frt. alld. gal. .41¼- —

NH_3 Days Closer NOW!

From Mid-Continent to Your Refinery

To Manufacturers of Petroleum Products

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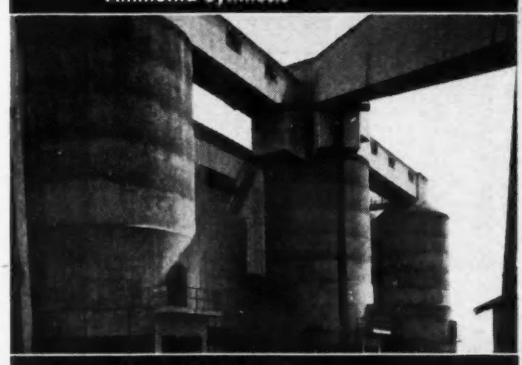
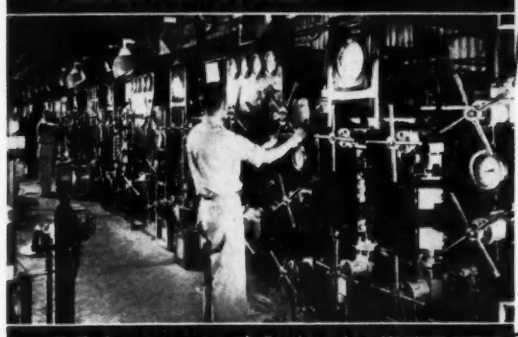
• Circulators and panel boards for Ammonia Synthesis



• Corner View of Power Plant



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Days—and hundreds of miles—closer to your refinery is the great new Spencer Works located in the very heart of the mid-continent area. From this unexcelled central location, tank car shipments of 99.5% pure ammonia go direct to leading refiners throughout the country . . . faster . . . more economically.

Immediate and future deliveries are now back to an ON-SCHEDULE basis. Write, wire or phone your requirements today.

Spencer CHEMICAL COMPANY

SPENCER

General and Sales Offices: Dwight Building, Kansas City 6, Missouri

Works: Pittsburg, Kansas

Methanol, synthetic, dms., l.c.l., Zone 1, frt. alld. or dlvd. gal. .37 - —
2, frt. alld. gal. .44 - —
3, dlvd. S. F. and L. A. gal. .42 - —
4 frt. alld. or dlvd. gal. 52½- —
synthetic, tanks, Zone 1, frt. alld. lb. .24 - —
2, frt. alld. gal. .27 - —
3, frt. alld. gal. .29 - —
4, frt. alld. gal. .29 - —

Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco, Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah, and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, non-ret. dms., c.l., dlvd. lb. .16 - —
10 dms. lb. .16½- —
1-9 dms. lb. .17 - —
hydrogenated, c.l., dlvd. lb. .17¼- —
10 dms., dlvd. lb. .17¾- —
1-9 dms., dlvd. lb. .18¼- —
Acetate, CP, 97-99%, dms., c.l., E. of Miss. lb. .10½- .12
W. of Miss. lb. .11½- .12
l.c.l., E. of Miss. lb. .11 - .14
W. of Miss. lb. .12 - .13½
tanks, E. of Miss. lb. .09½- —
W. of Miss. lb. .10¼- —

Methyl acetate, tech., dms., c.l., E. of Miss. lb. .07 - .09
W. of Miss. lb. .08 - —
l.c.l., E. of Miss. lb. .07½- .11
W. of Miss. lb. .08½- .10½
tanks, E. of Miss. lb. .06 - —
W. of Miss. lb. .07 - —
Acetoacetate, dms., c.l., works, frt alld. lb. .09½- —

Acetone, natural, Group A, dms., extra, c.l., E. of Miss., frt. alld. gal. 66 - —
l.c.l., same basis. gal. .78 - —
tanks, same basis. gal. .60 - —

Natural methyl acetone prices W. of Miss. R., 3c. per gal. higher.

Group B, dms., incl., c.l., E. Miss., frt. alld. gal. .67 - —
l.c.l., same basis. gal. .78 - —
tanks, same basis. gal. .60 - —
synthetic, dms., c.l., works, frt. alld. E. lb. .49 - —
frt. alld. W. lb. .51½- —
l.c.l., works, frt. alld. E. lb. .53 - —
frt. alld. W. lb. .55½- —
tanks, works, frt. alld. E. lb. .42½- —
frt. alld. W. lb. .44½- —

Methyl acetone, synth. East territory is all states East of and including Colo., Mont., N. Mex. and Wyo. West territory, all states West of Colo., Mont., N. Mex. and Wyo.

Alcohol (see Methanol).

Anthranilate, dms. lb. 1.80 - —
bots., cns. lb. 2.20 - 2.60
Benzoate, cns. lb. .45 - 1.20
Bromide, cns. lb. .63 - .65
cyls. lb. .55 - .70

Methyl chloride, indust. grade, cyl., works. lb. .16 - —
tanks, multi-unit, works. lb. .14¾- —
single-unit, works. lb. .14 - —
refrigeration grade, indust. consumers, refrigeration machinery mfgrs., cylinders, dlvd. lb. .33 - —
retail refrigeration consumers or service men, cylinders, dlvd. lb. .41 - —

Alcohol (see Methanol).

Cinnamate, cns. lb. 2.00 - 3.50
Formate, dms. lb. .89 - —
Iodide, bots. lb. 3.00 - 3.25
Lactate, dms., c.l., dlvd. lb. No stocks.
Oleate, dms., c.l. lb. No prices.
Salicylate, dms., 500 lbs. lb. .40 - —
25-50 lbs. lb. .45 - —

Methylamyl ketone, cns., dms., works. lb. No stocks.

Methylcellulose, special, vis. (4,000 cps.) fib. ctns., 2,000 lbs. or more, frt. alld. lb. .60 - —
smaller lots, frt. alld. lb. .65 - .70
standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more, frt. alld. lb. .53 - —
smaller lots, frt. alld. lb. .58 - .63

Methylcyclohexane, 98-100% dms., works. lb. .16 - —

Methylcyclohexanol, 98-100%, dms., works. lb. .23 - —

Methylcyclohexanone, 98-100%, dms. works. lb. No stocks.

Methylene blue, USP, 100-lb. lots, kgs., frt. equald. lb. 2.20 - —
50-lb. lots, kgs., same basis, lb. 2.30 - —
25-lb. lots, kgs., same basis, lb. 2.35 - —

Chloride, refrig., dms., dlvd. E. lb. .12 - .13

Methyleneanilin, lbs., ton lots, min. frt. alld. lb. .36 - —
smaller lots, same basis. lb. .37 - —

Methylethyl ketone, dms., dlvd. lb. .10½- —
l.c.l., dlvd. lb. .11 - —
tanks, dlvd. lb. .09 - —

Methylhexyl ketone, dms., tech., works. lb. .60 - —

Methylisobutyl carbinol (see Carbinol, methylisobutyl).

Methylisobutyl ketone, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd. lb. .14½- —
tanks, dlvd. lb. .12½- —

Methylnaphthyl ketone, cns. lb. 3.00 - 4.00

Methylpentanediol, dms., dlvd., works. lb. .24½- —
l.c.l., dlvd. lb. .25½- —
tanks, dlvd. lb. .23 - —

Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works. lb. .03½- —
roofing, 20 to 80 mesh, works. lb. .03¼- —
graphite, bulk, Pa., mines. ton. 30.00 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E. lb. .05¼- —
l.c.l., ex whse. or frt. alld. E. lb. .05¾- —
extra fine, bgs., c.l., works, frt. alld. E. lb. .05 - —
l.c.l., ex whse. or frt. alld. E. lb. .05½- —
paint or lacq., bgs., c.l., works, frt. alld. E. lb. .06½- —
l.c.l., ex whse. or frt. alld. E. lb. .07 - —
rubber, bgs., c.l., works, frt. alld. E. lb. .06¼- —
l.c.l., ex whse. or frt. alld. E. lb. .06¾- —
wallpaper, bgs., c.l., works, frt. alld. E. lb. .06½- —
l.c.l., ex whse. or frt. alld. E. lb. .07 - —
white, extra fine, bgs., c.l., works, frt. alld. E. lb. .06¾- —
l.c.l., ex whse. or frt. alld. E. lb. .07¼- —

Mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, ¾c. higher.

Milk powder, skimmed, roller, bulk, c.l. lb. .11¼- —
spray, bulk, c.l. lb. .11¾- —
whole, roller, bbls., c.l. lb. No stocks
spray, bbls., c.l. lb. .36 - —
Milk sugar, bbls., c.l., works. lb. .26 - —
l.c.l., works lb. .26¾- .27¼

Mineral spirits (see Petroleum, mineral spirits).

Molasses, blackstrap, tanks. gal. .31 - .32

Molybdate orange (see Orange, molybdate).

Molybdenum metal, kgs., 90%, powd. lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content. lb. .95 - —
technical, kgs., works, basis Mo. content. lb. .50 - —

Monoamylamine, dms., c.l., works, basis 100%. lb. .61 - —
l.c.l., works, basis 100%. lb. .64 - —

Monochlorobenzene, dms., c.l., works, frt. equalized with comp. points. lb. .06 - .07¼
l.c.l., works. lb. .06½- .08½
tanks, works, frt. equalized with comp. points. lb. .05½- .06
smaller containers, works. lb. .09 - .10

Monoethanolamine, dms., c.l., frt. alld. E. lb. .24 - —
l.c.l., same basis. lb. .25 - —
tanks, same basis. lb. .23 - —

Monoethylamine, dms., c.l., wks., basis 100%. lb. .17 - —
l.c.l., works, basis 100%. lb. .18 - —
tanks, 100% basis, works. lb. .15 - —

Monomethylamine, anhydrous, cyl., works, frt. alld. E. of Miss. 100% basis. lb. .32½- —
solution, dms., works, frt. alld. E. of Miss., 100% basis. lb. .37 - .43¼
tanks, same basis. lb. .32 - —

Monomethylpara-aminophenol sulphate, dms. lb. 2.40 - 2.90

Monosodium phosphate (see Soda phosphate, monobasic).

Morphine, bots., 5 ozs. oz. 1.10 - —
cns., 25 ozs. oz. 10.90 - —
Acetate, bots., 5 ozs. oz. 9.00 - —
cns., 25 ozs. oz. 8.80 - —
Hydrobromide, 5 ozs. oz. 8.95 - —
cns., 25 ozs. oz. 8.70 - —
Hydrochloride, bots., 5 ozs. oz. 9.00 - —
cns., 25 ozs. oz. 8.75 - —
Sulphate, bots., 5 ozs. oz. 9.00 - —
cns., 25 ozs. oz. 8.75 - —
Morpholine, dms., l.c.l., works. lb. .67 - —
smaller containers, works. lb. .75 - —
Mullein leaves, cns. lb. .12 - .13
Musk, nat., Tonquin grains, bots. oz. 55.00 -60.00
synthetic, ambrette, cns., 100 lbs. or more. lb. 4.60 -14.25
25 lbs. lb. 4.70 -14.35
5 lbs. lb. 4.85 -14.55
ketone, cns., 100 lbs. or more. lb. 4.15 - 9.25
25 lbs. lb. 4.25 - 9.35
5 lbs. lb. 4.40 - 9.70
xylol, cns. lb. 1.60 - 2.00
25 lbs. lb. 1.70 - 2.00
5 lbs. lb. 1.85 - 2.90
Muskroot, bls. lb. No prices
Mustard seed, Calif., brown, bgs. lb. .16½- .17
yellow, bgs. lb. .21 Nom.
Danish, yellow, bgs. lb. .19 - .19¼
Dutch, yellow, bgs. lb. .22½- .23
Montana, brown, bgs. lb. .16 - .16½
yellow, bgs. lb. .19 - .19½
futures, source lb. .16 - .16½
oriental, bgs. lb. .09¾- .09¾
futures, f.o.b. source lb. .07 - .07½
Washington, yellow, bgs. lb. No prices
Myrobalans, whole, J1, U. S., ports, ex dock. ton. 45.00 -46.00
J2, same basis. ton. 42.00 - —

N

Naphtha painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74°, bgs., c.l., frt. equald. lb. — - —
bbls., c.l., same basis. lb. — - —
tanks, same basis. lb. .035 - .0475
78°, bgs., c.l., same basis. lb. — - —
bbls., c.l., same basis. lb. .0410- —
l.c.l., same basis. lb. .0435- —
tanks, same basis. lb. .0375- .05
refined, balls, flakes, bbls., wholesalers and jobbers, c.l., works. lb. .09½- —
50-lb. cs., same basis. lb. .09¾- —
1-lb. pkgs., same basis. lb. .11 - —
Neocinchophen, USP, dms., works. lb. 7.00 - 7.10

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PLASTICS — THAT SMELL BETTER . . . SELL BETTER
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Nepheline syenite, glass grade, 24 mesh, bulk, Rochester, N. Y..ton.13.75 - —
pottery grade, 200 mesh, bulk, Rochester, N. Y..ton.17.25 - —
Nepheline syenite in bgs. is $2 per ton higher than bulk.
Narolin, crys., cns.....lb. 1.70 - 1.95
Niacin (see Acid, nicotinic).
Nickel, carbonate, bbls.....lb. .22 - —
Chloride, bbls.....lb. .20 - —
Cyanide, bots., dms.....lb. No stocks
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .14 - .14½
Nicotinamide, USP, dms., works. kilo.10.50 -10.80
Nicotine sulphate, 40% dms., 50 lbs., to dealers, frt. allowed over 50 lbs..lb. .988 - —
tins, 10 lbs.....lb. 1.105 - —
Nikethamide, bots., cbys.....lb. 6.50 - 7.50
Nitercake, bulk, works.....ton.20.00 -24.00
Nitrobenzene, dbl. dist., dms., c.l. lb. .08¼- —
l.c.l. .....lb. .09½- —
tanks .....lb. .07½- —
Nitrocellulose, alcohol-soluble, ½ sec., 30-35 cps., bbls., works, dry weight..lb. .26 - —
5-6, 40-60 cps., same basis. lb. .27 - —
ester-soluble, 5-6, 15-16 cps. and higher, bbls., works, dry weight..lb. .20 - —
Nitrocellulose:—Denatured alcohol used in manufacture is charged extra. Barrels extra, but returnable.
Nitroethane, dms., works.....lb. .25 - —
Nitrogen solut., tanks.....ton.106.21 - —
Prices adjusted to ammonia sulphate basis from ports, and anhydrous ammonia basis, Hopewell, Va., bulk, works.
Nitrogenous process tankage, bulk, works..unit-ton. 4.00 - 4.50
Sewage sludge, bulk, works.... unit-ton.3.80+.40- —
Nitromethane, dms., c.l., works. lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane 1, dms., works..lb. .25 - —
2, dms., works.....lb. .25 - —
Nutgalls, bgs.....lb. .44 - .50
Nutmegs, West Indian, bgs...lb. .88 - .90
futures, afloat .....lb. .76 - .77
Banda, bgs., futures.....lb. .70 - .71
Nux vomica, bls.....lb. .09½- .10
powder, bbls., bxs.....lb. .12 - .13

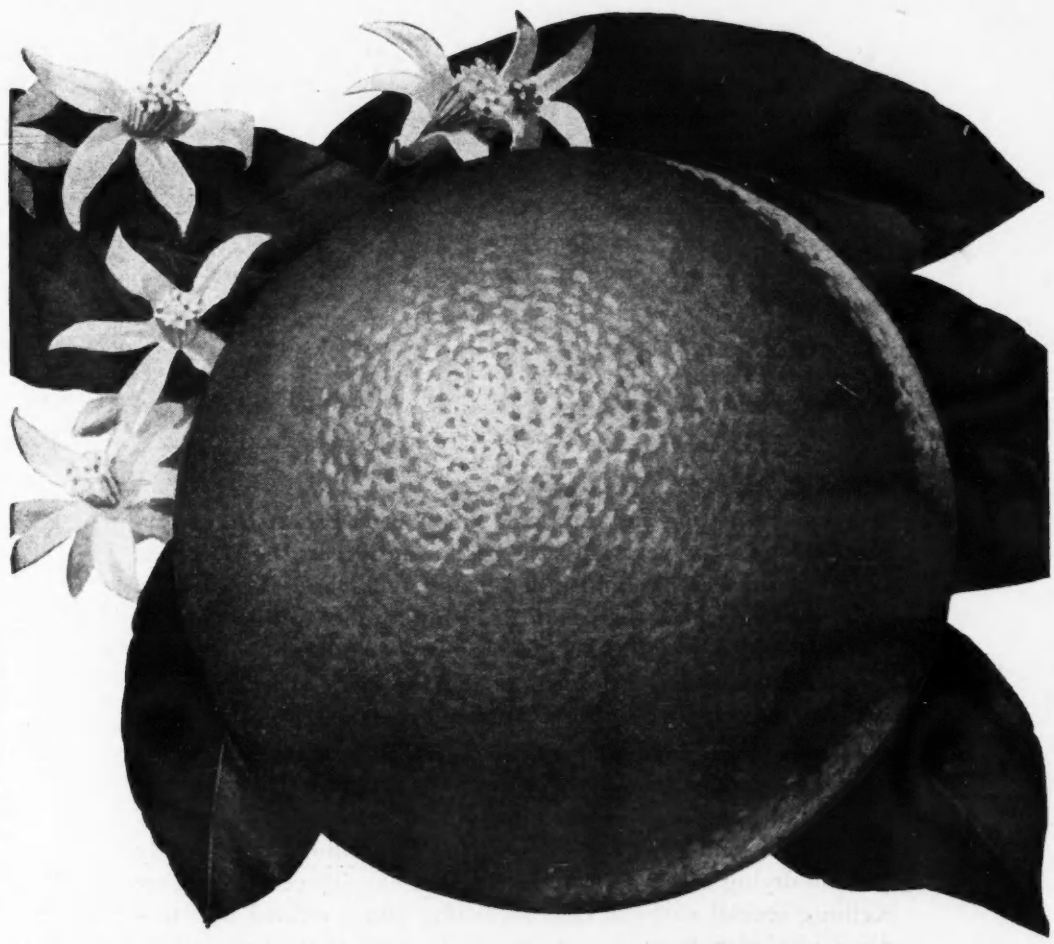
O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks
Octane, 100° C-140° C, industrial grade, dms., c.l., G. 3..gal. .16 - —
l.c.l., G. 3.....gal. .29 - —
10 gals., G. 3.....gal. .55 - —
tanks, G. 3.....gal. .13 - —
Octanol (see Alcohol, ethylhexyl).
Oil, almond, artificial (see Benzaldehyde).
Bitter, F.P.A., bots.....lb. 4.75 - 5.00
USP, bots. .....lb. 4.90 - —
sweet, ex., dms., cns.....lb. .90 - 1.10
Angelica root, bots.....lb.110.00 -275.00
Seed, bots. .....lb.115.00 -265.00
Anilin (see A).
Anise, USP, Chinese, dms...lb. .85 - 1.50
Russian, cns. .....lb. 3.50 - 3.75
Apricot kernel, cns.....lb. .65 - .85
Avocado, cns., dms.....lb. 1.00 - 1.10
Babassu, tanks.....lb. No prices
Bay, W. I., 50-55%, cns.....lb. 1.35 - 2.00
Puerto Rican, 50-55%, cns..lb. 1.43 - 2.00
Bergamot, artif., cns.....lo. 2.25 - 5.50
natural, Italian, cns.....lb. 5.25 - 6.50
Birch (see Oil, sweet, birch).
Birchtar, crude, cns.....lb. No prices
rectified, cns.....lb. No stocks
Bois de rose, Brazil, cns....lb. 3.85 - 5.75
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.70 - 2.90
redistilled, USP IX, cns....lb. 2.60 - 3.20
Calamus, cns.....lb.20.00 -50.00
Camphor, white, nat., cns...lb. .65 - 1.25
synthetic, dms.....lb. .15 - .35
Cananga, native, cns.....lb. 8.00 -14.00
rectified cns.....lb.10.50 -17.00
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns.....lb. 5.50 - 6.75
Cardamom, bots. .....lb.22.50 -31.50
Cassia, USP, cns.....lb. 3.45 - 6.50
Castor, blown, ret. dms., c.l..lb. No prices
l.c.l. .....lb. No prices
cold-pressed, USP, ret. dms., c.l..lb. .33 - —
l.c.l. .....lb. .34 - —
tanks .....lb. .32 - —
dehydrated, bodied, dms., c.l. lb. .40 - .42½
l.c.l. .....lb. .40½- .42
tanks .....lb. .39 - .41½
unbodied, dms., c.l.....lb. .38½- .41
l.c.l. .....lb. .39 - .41½
unbodied, tanks.....lb. .37½- .40
No. 3, tech., dms., c.l.....lb. .32¾- .34¼
l.c.l. .....lb. .33¾- .35¼
tanks .....lb. .31¾- .33¼
sulphonated, 50% (48% fat), dms..lb. .18 - .20
75% (62-64% fat), dms....lb. .28 - .30
Cedarleaf, USP, cns., dms...lb. 2.35 - 2.70
Cedarwood, cns. .....lb. .85 - 1.05
dms. .....lb. .80 - .97
Celeryseed, bots.....lb.15.00 -22.50
Chaulmoogra, USP, cns., dms. lb. .56 - —
Chinawood (see Oil, tung).
Cinnamon bark oil, bots.....lb.32.50 -95.00
leaf, dms.....lb. 1.50 - 1.85
Citronella, Ceylon, cns.....lb. 2.00 - 2.75
Java, cns.....lb. 4.50 - —
Clove, USP, cns.....lb. 1.45 - 1.85
Coconut, Ceylon type, tankcars. lb. .20 - .21
tankcars, Pac. Coast.....lb. .21 - .22
refined, Cochin type.....lb. .24 - —
deodorized, ret. dms., c.l., lb. .30 - —
Cod, Newfoundland, dms....gal. No prices
tanks .....gal. No prices
Codliver, USP, bbls., dms..gal. 2.60 - 3.70
Coriander, bots.....lb.17.50 -22.00
Corn, crude, tanks, works....lb. .30 - —
refined, tanks, works.....lb. .35 - —
foots, acid, 95%, tanks, dlvd. E..lb. .17½ Nom.
raw, 50%, tanks, dlvd. E.lb. .08¾ Nom.
Cottonseed, crude, tanks, works (see Cottonseed Oil market report).
deodorized, winterized, salad, dms., c.l..lb. .36 - —
l.c.l. .....lb. .36½- —
tankcars .....lb. .35 - —
foots, acid 95%, tanks, dlvd. E..lb. .17½ Nom.
raw, 50%, tanks, dlvd. E. lb. .08¾ Nom.
Creosote (see C).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, cns. .....lb. 7.50 -13.00
Crude (see Petroleum, crude).
Cumin, bots.....lb. 8.50 -14.00
Cypress, bots.....lb.12.00 -16.00
Degras (see D).

Oil, dillseed, bots.....lb. 6.50 - 7.00
Dillweed, bots.....lb. 5.00 - 5.25
Dip (see D).
Erigeron, cns.....lb. 2.25 - 2.40
Eucalyptus, USP, rect., 80-90%, cns..lb. 1.18 - 1.45
70-80%, cns.....lb. 1.05 - 1.30
Fennel, sweet, cns.....lb. 3.75 - 4.55
Fir, Canada, cns.....lb. 2.50 - 2.80
Fishliver, 8,000-15,000 A units per gram, dms., per million units. .23 - .25
15,000-30,000 units, dms., per million units. .25 - .27
30,000-60,000 units, dms., per million units. .26½- .28
60,000-100,000 units, dms., per million units. .28 - .30
over 100,000 units, dms., per million units. .30 - .32
concentrates, 200,000 or more A units per gram, dms., per million units. .40 - .45
Fuel (see Petroleum, fuel oil).
Garlic, pure, bots.....oz.15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns....lb.15.00 -28.00
Bourbon, cns. .....lb.13.75 -22.00
Russian, cns. .....lb. No stocks.
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb.10.00 -12.00
Grapefruit, Florida, cns....lb. 2.20 - 2.45
California, bots., cns.....lb. 2.10 - 2.25
Grease, common, No. 1, dms., Chicago..lb. .29½- .30
prime, burning, dms., Chicago. lb. .31½- .32
Guaiacwood, cns. .....lb. 2.50 - 3.80
Hemlock, cns. .....lb. 2.35 - 2.75
Herring, crude, tanks, Pac. coast..lb. No prices.
Juniper berry, dom., bots....lb. 6.00 -13.50
imported, USP .....lb. 9.00 -12.00
Juniper tar, USP (see Juniper Tar).
Juniper wood, tech., cns....lb. .65 - 1.00
Lard oil (see Oil, grease).

Oil, laurel, bots.....lb.20.00 - —
Lavandin, cns. .....lb. 3.00 - 5.00
Lavender flower, French, 38-42% ester..lb. 9.15 -17.00
30-32% ester.....lb. 5.50 -10.00
Russian, cns.....lb.12.50 - —
Spike, Spanish, pure, cns..lb. 1.85 - 3.10
tech., cns. .....lb. 1.05 - 3.50
Lemon, USP, Calif., cns.....lb. 3.25 - 3.70
Messina, cns. .....lb. 3.40 - 5.75
Terpeneless, bots.....lb.40.00 -65.00
Lemongrass, cns., dms.....lb. 2.75 - 3.40
Lignaloe seed, Mexican, cns..lb. No stocks
Wood, Mexican, cns.....lb. 3.75 - 4.75
Brazilian (see Bois de Rose).
Lime, distilled, Mexican, cns.lb. 4.50 - 7.20
West Indian, cns.....lb. 5.75 - 7.50
expressed, West Indian, cns.lb.13.00 -15.00
Linseed, raw, dms., c.l.....lb. .3950 Nom.
l.c.l. .....lb. .4040- .4060
tankcars .....lb. .38 - .3850
tankwagon .....lb. .3820- .3870
Boiled linseed oil, .004 higher than raw
Linseed replacement, dms., c.l. lb. .3640- —
l.c.l. .....lb. .3700- .3740
tankcars .....lb. .3540- —
Lubricating, at refinery, ex tax, California, neutral, pale, 200-800 vis., 2¼-4 pour, tanks..gal. .07¼- .11
red, 200-900 vis., 4-6½ pour, plus tanks..gal. .07¼- 11¼
Group 3, bright stock, 150-160 vis., 0.25 pour, tanks. gal. .23 - .25
neutral, 300 vis., No. 3, col., 0.10 pour, tanks.. gal. .18½- .19
200-300 vis. No. 3, col., 15-25 pour, tanks..gal. .16 - .18
145-155 vis., No. 3, color, 10-25 pour, tanks..gal. .26 - .31

Oil, lubricating, at ref'y, ex tax, Group 3, cylinder oils, 600-680 flash, tanks..gal. .17 - .19
600-650 steam, refd., tanks..gal. .15½- .20
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks..gal. .26 - .36
200 vis., 25 pour, tanks. gal. .28 - .38
Mace, dist., cns., dms.....lb. 8.50 -10.50
Mineral, white (see Oil, white).
Mandarin, Brazilian, cns.....lb. 5.25 -10.00
Menhaden, crude, tanks, Balto. lb. No prices
refined, alkali, dms., c.l..lb. .30½- —
kettle-bodied, dms., l.c.l..lb. .32 - —
light-pressed, dms., l.c.l..lb. .29 - —
tanks .....lb. .28 - —
Mustard, artif., USP, cns....lb. 1.45 - 1.65
Seed, exp., dms., c.l.....lb. .30 - —
Neatsfoot, 15°, ret. dms., wks. lb. .55 - —
20°, ret. dms., works.....lb. .53 - —
30°, ret. dms., works.....lb. .52 - —
Neroli, French, bots.....lb.150.00 -390.00
Haitian, bots.....lb.180.00 -200.00
Nutmeg, cns.....lb. 8.50 10.50
Ocotea cymbarum, dms.....lb. .85 - 1.00
Oiticica, liquid, tankcars....lb. .34¼- —
dms., carlots.....lb. .35½- —
l.c.l. .....lb. .35¾- —
Oleo, extra, tcs., Chicago....lb. .29 - —
Olibanum, bots.....lb. 5.00 - 6.05
extra, fine.....lb. 6.25 -10.50
Olive, denat., dms.....gal. No stocks
edible, Calif., 3%-½% f.f.a., dms., extra, works..gal. No prices
imported, dms. .....gal. 7.00 - 7.25
foots, dms., c.l.....lb. No prices
tankcars .....lb. No prices
sulphonated, 50% (40% fat), dms., c.l..lb. No stocks
l.c.l. .....lb. No stocks
80% (68% fat), dms., c.l... lb. No stocks
l.c.l. .....lb. No stocks
85% (68% fat), dms., c.l.lb. No stocks
l.c.l. .....lb. No stocks



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ORANGE
U. S. P.

Oil, orange, sweet, dist., cs....lb. 1.25 - 1.75
expressed, USP, Brazilian, cns..lb. 1.60 - 2.00
Calif., cns. .....lb. 1.60 - 2.10
Florida, cns., dms.....lb. 1.45 - 1.85
Messina, coppers.....lb. 4.50 - 4.75
West Indian, cns.....lb. 2.25 - 3.75
sesquiterpeneless, bots.....lb.100.00 -135.00
Origanum, Spanish, cs.....lb. 2.40 - 3.15
Palm, Niger, dms.....lb. No prices
Palmarosa, cns. .....lb. 8.00 - 9.50
Palmkernel, crude, bulk, c.i.f., N. Y..lb. No prices
Paraffin, 300° flash, 100-110 vis., tanks, G.3..gal. .05¾- —
320° flash, 60-70 vis., tanks, G.3..gal. .05¼- —
350° flash, 70-80 @ 100 vis., 0/10 pour, G.3..gal. .08 - —
80-85 vis., 0/10 pour, bbls. extra, ind. ref'y..gal. .12 - —
100-110 vis., 0/10 pour, same basis..gal. .08½- —
10/25 pour, same basis.gal. .08¼- —
Patchouli, imported, cns....lb.38.00 -98.00
Peanut, crude, tanks, works..lb. .32 - —
foots, acid, 95%, tanks, dlvd. E..lb. .17½ Nom.
raw, 50%, tanks, dlvd. E.lb. .08¾ Nom.
refined, tanks, mills.....lb. .35 - —
Pennyroyal, dom., dms., cns.lb. 3.85 - 3.95
import, cns. .....lb. 4.25 - 5.00
Peppermint, natural, dms...lb. 7.60 - 8.25
redist., USP, dms.....lb. 8.30 - 8.75
Perilla, crude, dms.....lb. No stocks
Petitgrain, Paraguay, cns...lb. 3.15 - 4.25
Pimento, berry, dms.....lb. 5.75 - 6.00
Leaf, cns. .....lb. 2.25 - 5.75
Pine, destructive dist., dms., c.l., extra, wks., South. gal. .67 - —
l.c.l., same basis.....gal. .68 - —
tanks, wks., South.....gal. .61 - —
steam-dist., dms., dlvd. E.gal. .80 - —
Pineneedle, cns.....lb. 2.50 - 3.65

Oil, putty, petroleum, heavy, dms. gal. .18 - —
tankwagon .....gal. .13½- —
light, dms. .....gal. .16½- —
tankwagon .....gal. .12½- —
Rapeseed, dms., c.l.....lb. .32 Nom.
Red, single dist., ret. dms..lb. .29¾- .30¾
tanks, dlvd., E. of Rockies. lb. .28½- —
double dist., ret. dms.....lb. .32¼- .33¼
Rose, natural, coppers.....oz.31.25 -42.00
Rosemary, Spanish, tech., cns., dms..lb. 1.00 - 1.50
USP, cns., dms.....lb. 1.30 - 1.75
Rosin, 1st rectified, dms....gal. .66 - —
2d rectified, dms.....gal. .68 - —
3d rectified, dms.....gal. .72 - —
Rue, bots. .....lb. 5.00 - 5.50
Sage, Dalmatian, cns.....lb. 5.25 - 6.50
Spanish, cns. .....lb. 2.25 - 3.50
Sandalwood, NF, Mysore, cns., case lots..lb.16.00 -20.00
Sardine, crude, tanks, Pac. coast..lb. Nom. - —
refined, alkali, dms., l.c.l..lb. .30½- —
kettle-bodied, dms., l.c.l..lb. .32 - —
light-pressed, dms., l.c.l..lb. .29 - —
tanks .....lb. .28 - —
Sassafras, artificial.....lb. .90 - 1.10
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP XII, cns., dms..lb. 1.95 - 2.30
Savin, cns. .....lb. 5.75 -16.00
Savory, cns. .....lb. 8.00 - —
Seal, No. 1, tanks, U.S. ports. lb. No prices
Sesame, tanks.....lb. No prices
Shingle stain, bbls., c.l., works. gal. .2185- —
l.c.l., works .....gal. .25 - .29
tanks, works .....gal. .15 - .16
Snakeroot, Canada, cns.....lb.22.00 - —

Oil, soybean, crude, tankcars, mills. lb. .28 - —
refined, alkali, dms., c.l....lb. .3483- —
l.c.l. .....lb. .3520- —
tankcars .....lb. .3383- —
clarified, dms., c.l.....lb. .3213- —
l.c.l. .....lb. .3350- —
tankcars .....lb. .3213- —
winterized, ref. tankcars.lb. .31 - .31½
foots, acid, 95%, tanks, dlvd. E..lb. .17¼ Nom.
raw, 50%, tanks, dlvd. E.lb. .08¾- —
Spearmint, dms. .....lb.13.25 -16.50
Sperm, bleached, 38°, dms...lb. No prices.
natural, 45°, dms.....lb. No prices.
Spruce, cns., dms.....lb. 2.35 - 2.70
Sunflower, imported, refined, tanks..lb. No prices.
semi-refined, tanks.....lb. No prices.
Sweet birch, North, cns....lb. 4.50 - 7.25
South, cns. .....lb. 2.50 - 3.25
Tall, crude, tankcars, works, ton.110.00 Nom.
Refined, dms., c.l., works..lb. .08½- .09¼
l.c.l., works.....lb. .09 - .10
tanks, works .....lb. .07½- .08½
Tallow, acidless, dms., Chicago. lb. .32½ Nom.
Tansy, cns. .....lb.12.00 - —
Tar, pine, crude, dms., extra, c.l., works, South..gal. .36½- —
l.c.l., works, South....gal. .38½- —
tanks, works, South....gal. .30½- —
rectified, USP, l.c.l., dms. extra, wks., South..gal. .57 - —
Tar acid (see T).
Thyme, red, NF, cns.....lb. 2.60 - 3.50
white, cns. .....lb. 2.85 - 3.70
technical, cns. .....lb. .75 - .90
Tung, dms., c.l.....lb. .37 - —
l.c.l. .....lb. .38 - .38½
tankcars .....lb. .36½- —
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, USP, cns., dms..lb. .37 - .53

Oil, vetiver, Bourbon, cns.....lb.30.00 -40.00
Haitian .....lb.29.50 -38.00
Whale, ref., natural, dms...lb. No stocks.
Winter bleached, dms.....lb. No stocks.
Wheat germ, dms.....gal.10.00 -12.50
White, mineral, tech. f.o.b., N. Y., 50-60 vis., dms., incl., c.l..gal. .42 - —
l.c.l. .....gal. .44 - .45
65-75 vis., dms., dms. incl., c.l..gal. .45 - —
l.c.l. .....gal. .47 - .52
USP, 80/90 vis., dms., dms. incl., c.l..gal. .49 - —
l.c.l. .....gal. .51 - .56
125/135 vis., dms., dms. incl., c.l..gal. .61 - —
l.c.l. .....gal. .64 - .66
145/155 vis., dms., dms. incl., c.l..gal. .66 - —
l.c.l. .....gal. .66 - .70
175/185 vis., dms., dms. incl., c.l..gal. .66 - —
l.c.l. .....gal. .68 - .73
200/210 vis., dms., dms. incl., c.l..gal. .70 - —
l.c.l. .....gal. .73 - .77
335/345 vis., dms. incl., c.l. gal. .78 - —
l.c.l. .....gal. .80 - .85
55, 70 and 85 vis., non-ret. dms., San Francisco..gal. .45 - —
smaller lots, same basis. gal. .47 - .50
100 vis., non-ret. dms., 65 dms., San Francisco. gal. .56½- —
smaller lots, same basis. gal. .57½- .61½
145 vis., non-ret. dms., 65 dms., San Francisco.gal. .64 - —
smaller lots, same basis. gal. .66 - .68
180 vis., non-ret. dms., 65 dms., San Francisco.gal. .69½- —
smaller lots, same basis. gal. .71½- .74½
240 vis., non-ret. dms., 65 dms., San Francisco.gal. .81 - —
smaller lots, same basis. gal. .83 - .86
Wintergreen, natural, North, cns..lb. 5.50 -17.25
South, cns.....lb. 3.65 - 6.00
Synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, cns.....lb. 5.25 - 5.35
Wormseed, cns. .....lb. 5.00 - 5.35
Ylang-ylang, Bourbon, extra, bots..lb.15.00 -24.00
first, bots.....lb.12.50 -17.00
second, bots.....lb. 7.50 -14.00
third, bots.....lb. 5.00 - 9.00
Oleostearin, loose.....lb. .31 - —
Olivine, aggregate, c.l., mines.. ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works..ton.10.00 - —
paper bgs., c.l., works..ton.12.00 - —
lumps, paper bgs., c.l., works. ton. 7.00 - —
Opium, USP, cns.....lb.21.30 -21.53
gran. .....lb.22.70 -29.95
powd. .....lb.22.70 -29.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies. lb. .65 - .95
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .26 - —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas, Tex., Ft. Worth, Tex., 1½c.; El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Dinitroaniline toner.....lb. 1.15 - —
Molybdate, bbls.....lb. .39 - —
Orthonitroaniline toner, bbls., kgs., works..lb. .86 - 1.05
Persian, bbls. .....lb. .30 - .45
Orange mineral, American, bbls., 5 tons, f.o.b. ship't point, frt. alld..lb. .20½- —
smaller lots, bbls., f.o.b. ship't point, frt. alld..lb. .21 - —
Orange flowers, bls.....lb. .46 - .49
Orange peel, bitter, Haitian, bls. lb. .14 - .15
Sweet, bls. .....lb. .13½- .14
Oregano, Italian, bgs.....lb. .27 - .27½
Portuguese, bgs. .....lb. .24½- .25½
Orris root, Florentine, bls.....lb. .39 - .41
Verona, bls.....lb. .24 - .26
Orthoamylphenol, dms., works.lb. .27 - —
Orthoanisidin, bbls. .....lb. .70 - —
Orthochloroaniline, dms. .....lb. .60 - —
Orthochlorophenol, dms.....lb. .25 - .31
Orthocresol, 30.4° C., min., M.P., dms., c.l., works..lb. .22 - —
l.c.l., works.....lb. .22½- —
29° C., min., M.P., dms., c.l., works..lb. .21 - —
l.c.l., works.....lb. .21½- .22½
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies..lb. .07½- .08
l.c.l., same basis.....lb. .09½- .10½
tanks, same basis.....lb. .07 - —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.
Orthonitroaniline, dms.....lb. .43 - .55
Orthonitrochlorobenzene, dms..lb. .15 - .18
Orthonitrodiphenyl, tech., grade A., dms., c.l., works.lb. .10 - —
l.c.l., works.....lb. .11 - —
grade B, dms., c.l., works.lb. .06 - —
l.c.l., works.....lb. .07 - —
Orthonitroparachlorophenol, cns.. lb. .75 - —
Orthonitrotoluene, dms.....lb. .06 - .09
Orthophenetidin, dms.....lb. .90 - —
Orthotoluidin, dms.....lb. .18 - .19
Osage orange crystals, bbls....lb. .32 - —
extract, No. 1, bbls.....lb. .15 - —
Ouabaine, USP, bots.....gram. 3.00 - 4.00
Oxyquinoline sulphate, cns., 100 lbs., works..lb. 6.40 - —
small lots, works.....lb. 6.55 - 7.40

P

Papain, powd., cs.....lb. 5.75 - 6.00
Papaverine, natural or synthetic, hydrochloride, NF, cns., 1,000-oz. lots..oz. 7.00 - —
smaller lots.....oz. 7.25 - 7.60
Sulphate, cns.....oz. 7.10 - 7.35
Paprika, Chilean, bgs.....lb. .34 - .35
Portuguese, bgs. .....lb. .42 - .42½
Spanish, bgs. .....lb. .47 - .49
Para-anisidin, dms., works.....lb. .75 - —
Parachlorophenol, dms., c.l., works. lb. .25 - —
l.c.l., same basis.....lb. .27½- .29
Paracresol, bots., works.....lb. .41 - —
Paracymene, dms., c.l., works.lb. .1595- —
l.c.l., same basis.....lb. .1645- —
tanks, same basis.....lb. .1545- —

KELLOGG
SOYBEAN OILS

● Spencer Kellogg and Sons, Inc., have been processors of soybean oil for many years. In the past twenty years the U. S. soybean production has multiplied many times and the soybean today is an agricultural crop of prime importance to this country. Six great Kellogg mills have been built to handle soybean processing maintaining the position of this Company as an outstanding exponent in soybean development.

In the field of industrial oils Spencer Kellogg and Sons, Inc., have developed a group of products that parallel and supplement its older linseed oil line. Paramount is DRISOY, a revolutionary achievement of the Kellogg Research Laboratories, a fully reliable drying oil, a perfected paint and varnish vehicle. Other Kellogg special soybean oils, including alkali refined and oxidized oils, also have found important industrial applications. The technological development of Soybean oil is still only in its infancy. Research on it continues constantly in the Spencer Kellogg laboratory and new developments of outstanding value are to be confidently expected.

DRISOY
SUPERIOR SOYBEAN OIL
DIAMOND "K" SOYBEAN OIL
(WITH OR WITHOUT DRIERS)

KELLOGG'S THE TEST TELLS 1894

SPENCER KELLOGG AND SONS, INC.
BUFFALO 5, N. Y.

"The First Name in Vegetable Oils"

Paradichlorobenzene, dms., c.l., works	lb.	.12½- —
l.c.l., same basis	lb.	.14 - —
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery	lb.	.06 - .06¼
fully ref'd slabs, loose, 117-119 ASTM, c.l., refinery	lb.	.05 - —
123-125 ASTM, refinery	lb.	.0610- .0645
125-127 ASTM, refinery	lb.	.0610- .0655
128-130 ASTM, refinery	lb.	.0640- .0675
130-132 ASTM, refinery	lb.	.0665- —
132-135 ASTM, refinery	lb.	.0695- .0710
135-137 ASTM, refinery	lb.	.0720- —
Prices in bags 4/10c. lb. higher.		
Paraformaldehyde, dms., 1,000 lbs. or more, works	lb.	.21 - —
smaller lots, works	lb.	.22 - —
Paraldehyde, tech., 98%, 55 and 110-gal. dms., l.c.l., wks	lb.	.13 - —
10-gal. dms., works	lb.	.16 - —
USP, cbys	lb.	.49 - .62
Paranitroanilin, kgs., works	lb.	.41 - .45
Paranitrochlorobenzene, kgs., wks.	lb.	.15 - —
Paranitrophenol, kgs	lb.	.35 - —
Paranitrotoluene, kgs., works	lb.	.30 - —
Paraphenylenediamine, tech., kgs.	lb.	1.25 - —
Paratoluenesulphonamide, bbls.	lb.	.70 - —
Paratoluidin, bbls., works	lb.	.44 - —
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. East.	lb.	.31 - —
l.c.l., same basis	lb.	.32 - .33
Passion flower herb, bls	lb.	.48 - .50
Patchouli leaves, bls	lb.	.38 - .40
Pectin, bbls	lb.	1.25 - —
Penicillin, amerph., calcium, bulk, 1,000,000,000 units	100,000 units.	.19 - —
sodium, bots	100,000 units.	.25 - —
cryst., sodium, bots.	100,000 units.	.27 - —
bulk, 1,000,000,000 units	100,000 units.	.21 - —
Pennyroyal leaves, bls	lb.	.24 - .25
Pentachlorophenol, dms., works.	lb.	.20 - .25
Pentaerythritol, tech., bbls., c.l. works	lb.	.32 - —
l.c.l., works	lb.	.34 - .36
Pentane, 28°-38° C., industrial grade, dms., c.l., Group 3,	gal.	.11 - —
l.c.l., dms., Group 3.	gal.	.19 - —
tanks, Group 3	gal.	.07½- .07¾
28°-38° C., laboratory grade, 10-gal. cns., divd. E.	gal.	.55 - —
dms., c.l., Group 3	gal.	.16 - —
l.c.l., Group 3	gal.	.29 - —
Pepper, black, bgs	lb.	.40 - .41
futures, bgs.	lb.	.38 - .40
Red, capsicum, Louisiana, longs, new crop, bgs., shipment point	lb.	.25 - .26
sports, bgs.	lb.	No stocks
Mombassa, bgs.	lb.	.39 - .40
Niger, bgs.	lb.	.30 - .31
Sierra Leone, futures	lb.	.27 - .28
Chillies, Haitian, bgs	lb.	.56 - .57
Mexican, long	lb.	.50 - .51
White, bgs.	lb.	.52½- .53
Peppermint, dom., USP, bls	lb.	1.00 - 1.05
imported, USP, bls	lb.	.96 - 1.00
Perchloroethylene, dms., c.l., Zone 1, works, frt. alld.	lb.	.10¼- —
Zone 2, same basis	lb.	.10¾- —
Zone 3, same basis	lb.	.11¼- —
Zone 4, same basis	lb.	.11¾- —
l.c.l., Zone 1, same basis.	lb.	.10¾- —
Zone 2, same basis	lb.	.11¼- —
Zone 3, same basis	lb.	.11¾- —
Zone 4, same basis	lb.	.11¾- —

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Peru balsam, dms	lb.	1.05 - 1.10
Petrolatum, tech., dark, bbls., c.l., Group 3	lb.	.021 - —
golden topaz, bbls., c.l.	lb.	.032 - —
l.c.l.	lb.	.036 - —
red, veterinarian, bbls., c.l.	lb.	.024 - —
l.c.l.	lb.	.028 - —
USP, amber, non-ret. dms., c.l.	lb.	.05 - —
l.c.l.	lb.	.06 - —
extra, amber, dms., c.l.	lb.	.05¼- —
l.c.l.	lb.	.06¼- —
cream, c.l., dms	lb.	.07 - —
l.c.l.	lb.	.08½- —
white, lily, dms., c.l.	lb.	.07¼- —
l.c.l.	lb.	.08¾- —
snow, dms., c.l.	lb.	.08¼- —
l.c.l.	lb.	.09¾- —
soft, dms., c.l.	lb.	.07¼- —
l.c.l.	lb.	.08¾- —
yellow, soft, dms., c.l.	lb.	.05½- —
l.c.l.	lb.	.06½- —
Petroleum, crude, bulk, at wells, California, heavy grades	bbl.	1.53 - 2.14
Illinois	bbl.	1.95 - 2.07
Kentucky, Union County	bbl.	1.97 - 2.02
Louisiana-Arkansas	bbl.	1.63 - 2.09
Montana	bbl.	1.55 - 1.95
Oklahoma-Kansas	bbl.	1.53 - 1.95
Pennsylvania, lower field	bbl.	3.73 - 3.91
Upper field	bbl.	1.86 - 3.40
Texas, East	bbl.	1.65 - 1.95
Gulf coast	bbl.	1.76 - 2.06
North, North-Central	bbl.	1.53 - 1.95
Panhandle	bbl.	1.53 - 1.95
West	bbl.	1.40 - 1.82
Wyoming	bbl.	1.55 - 1.95
Ether, laboratory grade, 30°-60° C, 10-gal. cns., divd. E.	gal.	.55 - —
dms., c.l., Group 3	gal.	.16 - —
l.c.l., same basis	gal.	.29 - —
35°-60° C, 10-gal. cns., divd. E.	gal.	.55 - —
dms., c.l., Group 3	gal.	.16 - —
l.c.l., same basis	gal.	.29 - —
40°-75° C, 10-gal. cns., divd. E.	gal.	.55 - —
dms., c.l., Group 3	gal.	.16 - —
l.c.l., same basis	gal.	.29 - —
Fuel oil, furnace, tanks, at refinery, Arkansas, No. 2.	gal.	.04½- —
No. 3	gal.	.04¼- —
Bayonne, No. 2, tanks	gal.	.0640- —
California, heavy	bbl.	1.50 - 1.55
light	bbl.	1.70 - 1.75
diesel	gal.	.0675- .0725
Group 3, No. 1	gal.	.04¾- .04⅞
No. 2, straw	gal.	.04½- .04⅝
No. 3	gal.	.04 - .04⅛
Oklahoma, No. 1, p.w.	gal.	.04¾- .05⅛
No. 1, straw	gal.	.04¾- —
No. 2, straw	gal.	.04½- .04⅝
No. 3	gal.	.04 - .04⅛
No. 6	bbl.	1.15 - 1.35
range	gal.	.04¼- —
Pennsylvania, No. 1	lb.	.06¾- .07
No. 2	gal.	.06¼- .06⅜
No. 3	gal.	.06¼- .06⅜
36-40 gravity	gal.	.06½- —
Bunker C (No. 6), tanks, Albany, N. Y.	bbl.	2.42 - —
Petroleum, fuel oil, bunker C (No. 6), tanks, Baltimore, Md.	bbl.	2.22 - —
Boston, Mass.	bbl.	2.26½- —
Charleston, S. C.	bbl.	2.13 - —
Jacksonville, Fla.	bbl.	1.83 - 2.08
New York, N. Y.	bbl.	2.22 - —
Norfolk, Va.	bbl.	2.18 - —
Philadelphia, Pa.	bbl.	2.22 - 2.27
Portland, Me.	bbl.	2.26½- —
Providence, R. I.	bbl.	2.23½- —
Savannah, Ga.	bbl.	2.13 - —
Lacquer, diluent, California, 100 i.b.p., 200 e.p., tanks, divd. Los Angeles	gal.	.11 - —
Seattle, Wash.	gal.	.12 - —
East Coast, N. J., N. Y., tanks, refinery	gal.	.13 - —
Group 3, benzol type, tanks,	gal.	.09⅞- —
toluol type, tanks	gal.	.09⅜- —
Portland, Ore.	gal.	.12 - —
San Francisco	gal.	.11½- —
Mineral spirits, California, San Francisco, 170-250 b.r., tanks	gal.	.11½- —
205-290 b.r., tanks	gal.	.11½- —
244-362 b.r., tanks	gal.	.11½- —
307-360 b.r., tanks	gal.	.11 - —
312-402 b.r., tanks	gal.	.10 - —
362-458 b.r., tanks	gal.	.10 - —
East Coast, N. J., N. Y., tanks, refinery	gal.	.12½- —
Group 3, tanks, refinery	gal.	.07⅞- —
Gulf coast, tank	gal.	.0 - —
tankwagon, Baltimore	gal.	.14½- —
Boston	gal.	.13 - —
Buffalo	gal.	.13½- —
Camden, N. J.	gal.	.12½- —
Chicago	gal.	.1460- —
Detroit	gal.	.1710- —
Kansas City, Mo.	gal.	.1435- —
Lancaster, Pa.	gal.	.13½- —
Newark	gal.	.12½- —
Petroleum, mineral spirits, tankwagon, New York	gal.	.12½- —
Philadelphia	gal.	.12 - —
Pittsburgh	gal.	.13½- —
Providence	gal.	.15 - —
Rochester	gal.	.13½- —
St. Louis	gal.	.149 - —
Syracuse	gal.	.15½- —
Washington, D. C.	gal.	.14½- —
Wilmington, Del.	gal.	.12 - —
Naphtha, cleaners, California, tanks, San Francisco	gal.	.13 - —
East coast, N. J., N. Y., tanks, refinery	gal.	.11 - —
Group 3, tanks, refinery	gal.	.08⅞- —
tankwagon, Newark	gal.	.06½- —
Chicago	gal.	.14¼- —
Detroit	gal.	.15½- —
New York	gal.	.12 - —
Philadelphia	gal.	.125 - —
St. Louis	gal.	.1470- —
high flash, 140° F, Group 3 refinery, tanks	gal.	.12½- —
high-solvency, No. 8, tanks, Paulsboro, N. J.	gal.	.18½- —
No. 30, tanks, same basis,	gal.	.19½- —
No. 40, tanks, same basis,	gal.	.19¾- —
No. A-80, tanks, Carteret, N. J.	gal.	.20 - —
A-80, tanks, Chicago, Cincinnati, Detroit	gal.	.24 Nom.
No. B-90, tanks, Carteret, N. J.	gal.	.21½- —
No. F-80, tanks, Carteret, N. J.	gal.	.24 - —
V.M.&P., at refinery, 46.5, 254 i.b.p., 380 e.p., tanks, El Segundo	gal.	.12 - —
Richmond	gal.	.12½- —
Petroleum naphtha, V.M.&P., at ref'y, Portland, Ore., Seattle, Wash.	gal.	.12 - —
California, 64-77, 190 i.b.p., 310 e.p., Los Angeles	gal.	.11 - —
San Francisco	gal.	.11½- —
Portland, Seattle	gal.	.12 - —
E. Coast, N. J., N. Y., tanks, refinery	gal.	.12½- —
Group 3, tanks	gal.	.09⅞- —
Gulf Coast (divd. New Orleans), tanks	gal.	.10 - —
tankwagon, Boston	gal.	.14 - —
Chicago	gal.	.149 - —
Detroit	gal.	.163 - —
Milwaukee	gal.	.165 - —
Minneapolis	gal.	.164 - —
Newark	gal.	.13½- —
New York	gal.	.13 - —
Philadelphia	gal.	.13½- —
Pittsburgh	gal.	.14½- —
St. Louis	gal.	.159 - —
Solvent, rubber, at refinery, California, San Francisco, tanks	gal.	.11½- —
East Coast, N. J., N. Y., tanks	gal.	.12⅛- —
Group 3, tanks	gal.	.09⅛- —
Stoddard (C.S. 8-33), at refinery):—		
California (San Francisco), tanks	gal.	.12 - —
East Coast, N. J., N. Y., tanks	gal.	.11¼- —
Group 3, tanks	gal.	.08⅝- —
Pennsylvania, western, tanks	gal.	.08¼- —

When it's a battle against TIME—

you'll appreciate the SERVICE you get on SKELLYSOLVE!

● When you are bending every effort to meet an emergency order, one little hitch along the line can throw the whole operation out of gear.

That's why you will appreciate Skellysolve—*and Skellysolve service. We make delivery when you need it!* We'll also furnish special technical assistance—whenever you need it. Phone, write, or wire SKELLYSOLVE Division, address below.

Unusual Oil Well Fire

A rock shot out of this Skelly Oil Well, and struck the steel crown block. The spark set off this explosion—caught by the camera a split second before the fire reached the main column. It is considered by many to be the most unusual photo of an oil well fire ever made.

SKELLYSOLVE *in the OIL, PAINT, and DRUG FIELD*

There is a Skellysolve naphtha ideally suited for better production of top quality paint, varnish, oil cloth, ink, linoleum, and other related products, plus naphthas especially fractionated for all laboratory uses. Each is famed for low evaporation losses, close boiling ranges, purity, and uniformity. There is a full line of V. M. & P. naphthas, mineral spirits, and lacquer diluents, plus many other special hydrocarbons. Write today for full information.

SKELLY

SKELLYSOLVE

SOLVENTS DIVISION, SKELLY OIL CO.
SKELLY BLDG., KANSAS CITY, MO.

Petroleum solvent, Stoddard, tank-wagon, Boston..gal. .13 - —
Chicago .....gal. .14½- —
Detroit .....gal. .16½- —
Milwaukee .....gal. .15½- —
Minneapolis .....gal. .1540- —
Newark .....gal. .13½- —
New York .....gal. .12½- —
Philadelphia .....gal. .12½- —
Pittsburgh .....gal. .13 - —
St. Louis .....gal. .14½- —
Syracuse .....gal. .15½- —

Sulphonates, 68% sulphonic content, ret. dms., c.l., wks. lb. .09¾- —
l.c.l., works .....lb. .09¾- .10¾
tanks, works .....lb. .09¾- —
50% sulphonic content, ret. dms., c.l., works..lb. .09¾- —
l.c.l., works.....lb. .09¾- .10¾
tanks, works .....lb. .09½- —

Phenobarbital, dms., 100 lbs...lb. 3.50 - 4.50

Phenol, 90-92% (cresol, 8-10%), dms., c.l., wks., frt. equald. lb. .11¾- .12¼
l.c.l., same basis.....lb. .12½- —
tanks, same basis.....lb. .10½- .11½

82-84% (cresol, 16-18%), dms., c.l., same basis..lb. .11½- .12
l.c.l., same basis.....lb. .12½- .12¾
tanks, same basis.....lb. .11 - —

USP, dms., c.l., same basis.lb. .11¼- .13
l.c.l., same basis.....lb. .12 - .13¼
tanks, same basis.....lb. .10¼- .11¾

Phenolphthalein, USP, bbls., dms., 2,000 lbs..lb. .85 - —
smaller lots.....lb. .87 - .92
Yellow, fib. dms., 2,000 lbs..lb. .80 - —
smaller lots .....lb. .82 - .87

Phenothiazin, NF, fib. dms., ton lots or more, works..lb. .49 - —
smaller lots, works .....lb. .54 - —

Phenylacetaldehyde solution, 50%, bots..lb. 2.35 - 2.75
pure, bots. .....lb. 4.00 - 5.15
Phenylethyl acetate, dms.....lb. 2.40 - 3.65
Phenylethylphenyl acetate, bots. lb. 5.15 - 7.50
Phenylhydrazin base, CP, bots.lb. 4.55 - —
Hydrochloride, CP, bots., works. lb. 7.10 - —
commercial, kgs., works...lb. 1.75 - —
Phloroglucinol, CP, fib. dms...lb. 13.75 -14.75
tech., fib. dms.....lb. 12.00 12.55
Phosgene, 150-lb. cyls., works..lb. .20½- .35
10-lb. cyls., works.....lb. 1.00 - —
Phosphate, defluorinated (see under D).
Phosphate rock, Fla., land pebble unground, run-of-mine, washed, dried, 68-66% b.p.l., bulk, car at mine, c.l.... long ton. 2.94 - 3.00
70%-68% same basis.. long ton. 3.34 - 3.49
72%-70% b.p.l., same basis..long ton. 3.94 - 4.00
75%-74% b.p.l., same basis..long ton. 4.94 - 5.09
77%-76% b.p.l. same basis..long ton. 5.94 - 6.09

Prices for Florida phosphate are plus usual bonus penalty clause on oil & of labor. Prices on entirely pebble 50c. per long ton higher than above quotations.

finely ground, 65.5% b.p.l., 34% P_2O_5 minimum.. short ton. 4.65 - —
68% b.p.l., basis 31% P_2O_5 minimum..short ton. 4.85 - —
70% b.p.l. basis 32% P_2O_5 minimum..short-ton. 5.20 - —

Phosphate rock, Tennessee, brown, unground, run-of-mine, 70-68% b.p.l., 5½% l. & a., same basis..long ton. 5.50 - —
72%-70%, b.p.l., 5¼% l. & a., same basis..long ton. 6.00 - —
28% P_2O_5, same basis.... long ton. 5.15 - —
30% P_2O_5, same basis.... long ton. 5.35 - —
finely ground, 31% P_2O_5, same basis..short-ton. 5.45 - —
32% P_2O_5, same basis.... short ton. 5.70 - —
33% P_2O_5, same basis.... short ton. 6.20 - —

Phosphorus, red amorphous, cs. lb. .33 - .35
tins, export .....lb. .55 - —
yellow, cns. .....lb. .25 - .27
dms., c.l. .....lb. .22 - —
Oxychloride, dms., c.l.....lb. .10½- —
Pentoxide, dms., c.l., works.. lb. .12 - —
l.c.l., works .....lb. .13 - .14
Sesquisulphide, tins, cs.....lb. .26 - .27
Trichloride, dms., c.l.....lb. .10¼- —
l.c.l. .....lb. .12¼- .15

Phthalamide, bbls., works....lb. .35 - .40
kgs., works.....lb. .45 - .50

Phthalic anhydride, bgs., bbls., c.l., works, frt. alld. E. of Denver..lb. .14½- —
l.c.l., same basis.....lb. .15½- —

Pichi leaves, bgs.....lb. .07 - .08

Picoline (see Alphapicoline and Betapicoline).

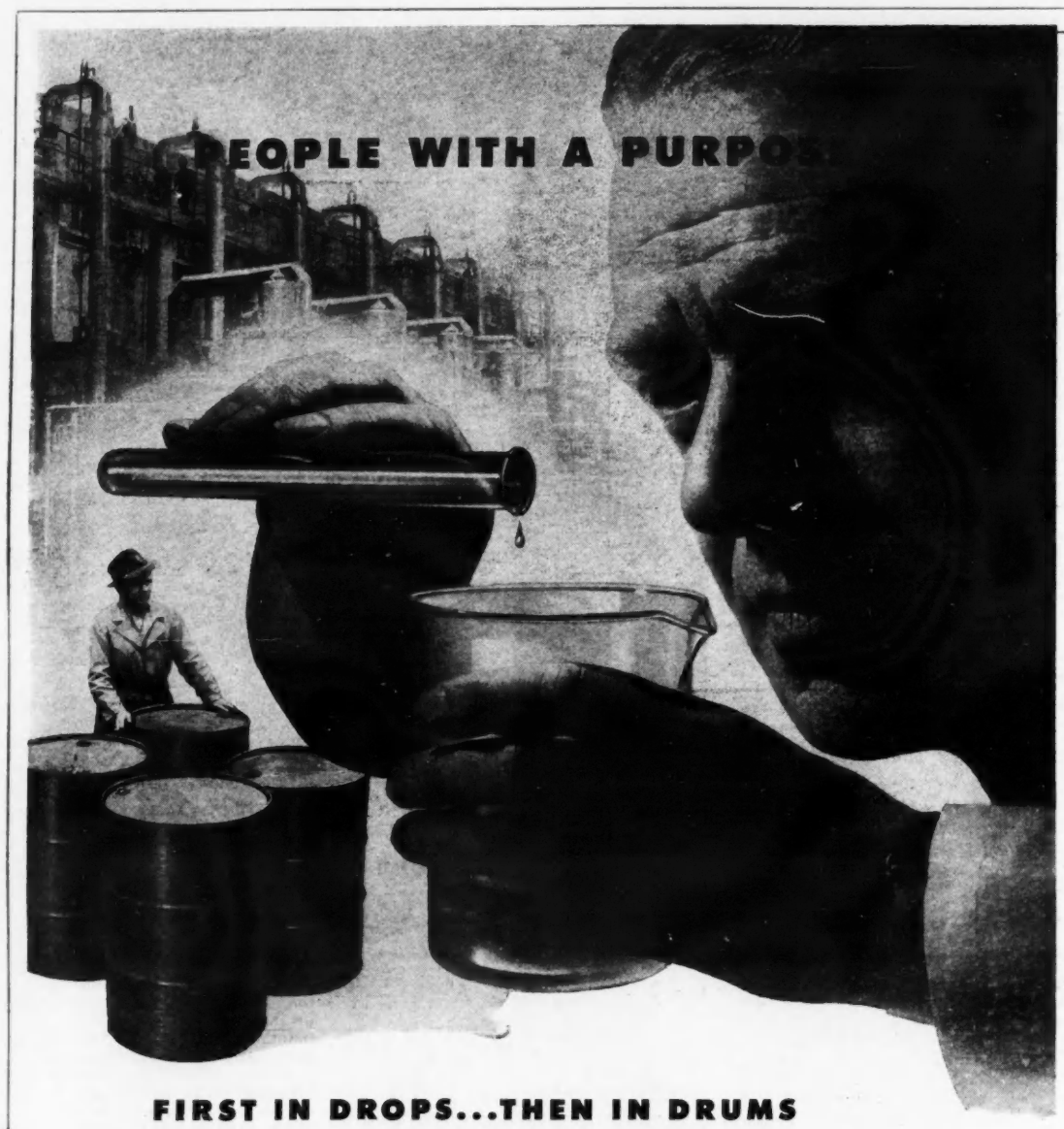
Picrotoxin, bots. .....oz. 6.00 - —
Pilocarpine hydrochloride, USP, bots., vials..oz. 6.50 - 7.50
Nitrate, bots., vials.....oz. 6.25 - 7.25
Pimento, Jamaica, bgs.....lb. .23½- .24

Pinetar, retort, dms., extra, c.l., works, South..gal. .36½- —
l.c.l., works, dms., extra.. gal. .38½- —
l.c.l., whse., N.Y.C., dms., extra..gal. .47¾- —
tanks, works, South.....gal. .30½- —
Pinkroot, bls. .....lb. 1.10 - 1.15
Piperazine hexahydrate, bots..lb. 13.00 -13.50
Pitch, burgundy (see B).
Coaltar, 150° m.p., bbls., c.l., works..ton. 24.25 - —
l.c.l., works.....ton. 27.25 - —
Cottonseed, dms., works....lb. .10½- .10¾
Hardwood, paper bgs., works.. lb. .04 - —
Linseed, dms. .....lb. No prices.
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms. .....100 lbs. 7.85 - —
stands, 200 lbs.....stand. 15.70 - —
Soybean, dms., works.....lb. .10¼- .10½
Plaster of paris (see Gypsum).
Podophyllin, dms.....lb. 13.50 -13.75
Pokeroot, bls. .....lb. .16 - .17
Polystyrene, plain colors, dms., 30,000 lbs., works, frt. alld. lb. .31½- —
20,000 lbs., frt. alld.....lb. .32½- —
smaller lots, frt. alld....lb. .33½- .35½
Water-clear, polystyrene, 7c. per lb. less than plain colors.

Pomegranate, root bark, bgs..lb. .75 - .76
Poppy flowers, bls.....lb. .60 - .70
Seed, Argentine, bgs.....lb. .19 - .19¼
Danish, bgs. .....lb. .21 - .21½
Dutch .....lb. .23½- .24
Turkish, bgs. .....lb. .21 Nom.
Potash abietate.....lb. .08 - —
Acetate, USP, dms.....lb. .32 - .34
Bicarbonate, USP, gran., dms. lb. .20 - .22
powd., dms.....lb. .22 - .24
Bichromate, bgs., c.l., works.. lb. .10¾- —
l.c.l., works.....lb. .10¾- .11¼
Potash bichromate in bbls., ¼c. higher.
Borate, gran., bbls., c.l., works. ton. 200.00 - —
ton lots, works.....ton. 218.50 - —
less ton lots, works....ton. 223.50 - —
Bromide, USP, cryst., gran., 500-lb. bbls., dms..lb. .25 - .26
Carbonate, calcined, bbls., c.l., works..lb. .07¼- —
l.c.l., same basis.....lb. .08 - —
hydrated, 83-85%, bbls., c.l., works..lb. .05¾- —
dms., l.c.l., same basis..lb. .06½- —
USP, gran., bbls., dms....lb. .15½- .18
powd., bbls., dms.....lb. .20 - .25
Caustic, low-chloride, 90% basis, flake, dms., c.l., works.. 100 lbs. 9.50 - —
l.c.l., works....100 lbs. 10.25 - —
liquid, dms., c.l., works..... 100 lbs. 8.75 - —
l.c.l., works....100 lbs. 9.50 - —
tanks, works.....100 lbs. 8.25 - —
solid .....100 lbs. 8.75 - —
l.c.l., works....100 lbs. 9.50 - —
regular, flake, 88-92%, dms., c.l., works..lb. .07½- —
l.c.l., works.....lb. .08¼- —
liquid, 45% basis, dms., c.l., works, frt. alld..lb. .03 7½- —
l.c.l., same basis.....lb. .03¾- —
tanks, same basis.....lb. .03½- —
solid, 88-92%, dms., c.l., works..lb. .06¾- —
l.c.l. .....lb. .07¼- —
Chromate, tech., bgs.....lb. .25 - .29
Chlorate, cryst., kgs., c.l., wks. lb. .08¼- —
l.c.l., works.....lb. .09¾- —
powd., dms., kgs., c.l., works. lb. .09 - —
l.c.l., works.....lb. .09¾- —
export, 1 to 10 tons, kgs., ex whse..lb. .14 - .16
Chloride, tech., cryst., 98%, bgs., kgs..lb. .08 Nom.
Citrate, USP, gran., bbls., dms. lb. .33½- .36½
powd., 3c. per lb. higher.
Cyanide, dms., works.....lb. .55 - —
Fluoride, bbls.....lb. .34 - .40
Glycerophosphate, 75% solution, cbys..lb. 2.30 - —
Guaiacol sulphonate, NF, dms. lb. 1.80 - 1.85
Hydroxide, USP, sticks, dom.lb. .34 - .36
Hypophosphite, cns.....lb. .72 - .75
Iodide, dms.....lb. 1.75 - 1.78
Manure salt, 22% K_2O, Carlsbad, N. M..unit-ton. .20 - —
25% K_2O, same basis.unit-ton. .21 - —
Metabisulphite, gran., bbls...lb. .19 - .21
powd., bbls.....lb. .23 - —
Muriate, dom., 60-62-63% K_2O, bulk, ex vessel ports.... unit-ton. .53½- —
50-52% K_2O, ex vessel, U. S. ports..unit-ton. .53½- —

Domestic muriate of potash prices, c.l., f.o.b. Carlsbad, N. M., are 13.5c. per unit of K_2O less than ex vessel price, basis Trona, Cal.; 8c. per unit of K_2O less than ex vessel price at Pacific coast ports.

Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .28 - .34
Perchlorate, kgs., works.....lb. .10 - .11
Permanganate, tech., dms., works..lb. .20¾- .21¼
USP, dms., works.....lb. .22½- .23
Persulphate, dms., c.l., works, lb. .16 - —
l.c.l., same basis.....lb. .20 - —
Phosphate, tetrabasic, bbls., works..lb. .13 - .13½
Prussiate, red, kgs.....lb. .55 - .58
Yellow, bbls.....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l., works. ton. 200.00 - —
l.c.l. .....100 lbs. 15.25 - —
solution, 29° Be ret. drums, c.l. works..100 lbs. 4.25 - —
l.c.l., 5 or more, works... 100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
32° Be, ret. dms., c.l., works. 100 lbs. 4.75 - —
l.c.l., 5 or more, works. 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works..100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Sulphate, NF, cryst.....lb. .30½- .33½
powd., bbls.....lb. .14½- .17
tech., dom., bulk basis 90-95% K_2O_4, min. 90%, ex vessel Atlantic or Gulf ports.. ton. 36.25 - —
West coast potash ports, same basis..ton. 39.25 - —
Sulphocyanide, cryst., N.F., dms..lb. .62 - .70
Triocyanate (see Potash sulphocyanide).
Xanthate, dms., c.l.....lb. .12 - —



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Just a few precious drops herald the production to come. Today in Oronite laboratories, research people are gathering the know-how to make more and better industrial chemicals available. Later, new chemical products will flow in quantity.

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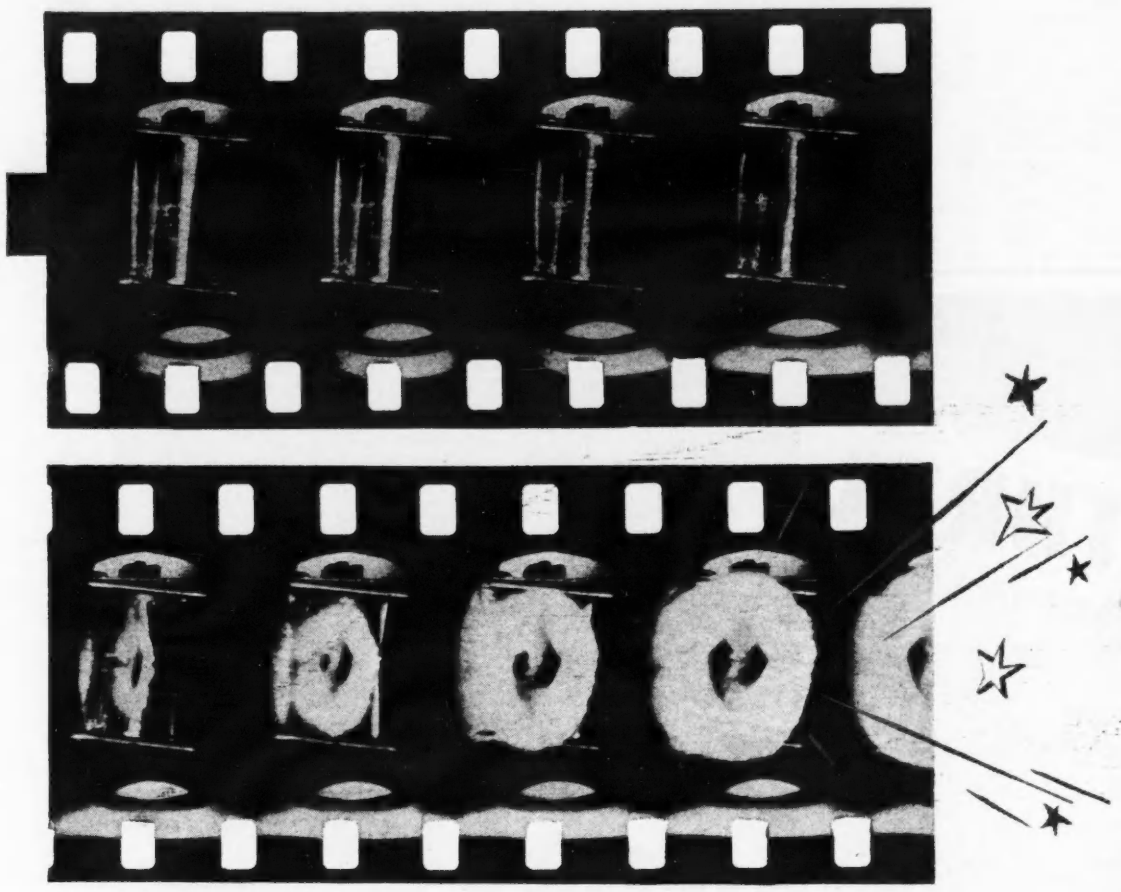


CURIOSITY—at 70 miles per hour!

Pictured above are eight frames which a high-speed movie camera has taken of a bursting can.

The can itself is in a machine built for the purpose of seeing how much pressure is needed to make the seams of containers fail.

And the pictures show us just *how* and *where* the event occurs.

We take pictures like this because we're curious. In this case, our curiosity travels as fast as 70 miles per hour, or 4000 exposures per second.

You've got to be eager to know, if you're determined to be the leading can maker in the world.

Cat killers . . .

For you've got to look under every stone . . . tramp up every scientific alley of investigation . . . have the curiosity that kills cats, but makes good scientists . . . if customers are to be served well.

This same attitude and habit of mind applies to everything that's done at the General Research Laboratory of American Can Company at Maywood, Illinois.

Solder, enamel, steel, tin, and sealing compounds get the same thorough going over. Processing techniques are being continually investigated and improved. Fundamental research in the nutritive values of canned foods proceeds daily.

Why?

Why all this? Because metal containers play such an important part in American life that they're almost taken for granted.

We feel, therefore, that we have an obligation to make the best metal containers possible.

AMERICAN CAN COMPANY CANCO NEW YORK · CHICAGO · SAN FRANCISCO

NO OTHER CONTAINER PROTECTS LIKE THE CAN

Potash-magnesia sulphate, bulk, min., 40% K_2SO_4 18.50% MgO, ex vessel, ports...ton.26.00 - —
Potash-soda ferricyanide, kgs., works..lb. .45 - .48
Potash-titanium oxalate, bbls., dms..lb. .50 - .55
Prickly ash bark, bls.....lb. .40 - .45
Berries, bgs.....lb. .50 - .60
Prince's pine herb, bls.....lb. .50 - .65
Procaine hydrochloride, cns., 100-lb. lots..lb. 5.00 - —
Propane, industrial grade, tanks, Group 3..gal. .08½- —
Propyleneglycol, dms., c.l., frt. alld. in E..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .14½- —
Psyllium seed (see Fleaseed).
Pulsatilla, bls.....lb. .60 - .65
Pumice, grd., fine, bgs., ton lots. lb. .03⅝- —
smaller lots.....lb. .03⅞- .04
coarse, 0½, 1, 1½, 2, 3, bgs., ton lots..lb. .03⅜- —
smaller lots.....lb. .03⅞- .04¼
Chl., ton lots.....lb. .04½- —
Italian, silk-screen, fine, ton lots, bgs..lb. .04 - —
coarse, same basis.....lb. .03½- —
sun-dried, fine, ton lots, bgs. lb. .03 - —
coarse, same basis.....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs.....lb. .27 - .29
Purple lake (see Red).
Putty, com'l, dms.....100 lbs. 3.85 - 4.55
linseed oil, raw, dms....100 lbs. 8.50 - 9.90
refined, dms.....100 lbs.12.00 -13.20
standard, dms.....100 lbs. 7.15 - 8.05
Pyrethrum, concentrate, dewaxed, 20% for aerosol bombs, dms., works..lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams prethrins for 100 cc., dms., regular base, works..gal. 6.65 - —

Pyrethrum concentrate, liquid, odorless base, dms., works. gal. 6.75 - —
(30 to 1), base 3 grams pyrethrins, per 100 cc., bbls., works..gal.10.00 - —
Pyrethrum, flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .33¾- —
powder, 0.5% pyrethrins, bbls., works..lb. .25 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 - 1.90
refd., 2°, ret. dms. same basis. lb. .55 - .55½
Pyridoxin hydrochloride, 100-gram lots..kilo.650.00 - —
Pyrites, Spanish, c.i.f. Atl. ports. long-ton. 8.00 -10.00
Pyronate, dms., c.l., dlvd. E. of Miss..gal. .70 - —
l.c.l., works.....gal .70 - —
tanks, dlvd., E. of Miss....gal. .60 - —
Pyrenate prices W. of Miss 3c. per gal. higher.
Pyrocatechin (see Catechol).
Pyrophylite, standard, 200 mesh c.l., bulk, mines..ton.10.00-11.50
325 mesh, same basis....ton.13.00 -13.00
No. 3, 200 mesh, c.l., mines.ton. 9.50 - —
325 mesh, same basis....ton.11.50 - —
Pyrophylite in paper bags., $1.50 per ton extra.
Pyroxylin, scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .17 - —
gray, cs., works.....lb. .17 - —
mixed, mottled, cs., wks.lb. .14 - —
white, China, ivory, cs., wks. lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works..lb. .17 - —
transparent, cs., works....lb. .19 - —
colors, cs., works.....lb. .17 - —

Pyroxylin shavings, amber, cs., works..lb. .17 - —
mixed colors, cs., works..lb. .14 - —
white, cs., works.....lb. .17 - —

Q

Quassia chips, bls.....lb. .09 - .12
Quebracho extract, solid, 63% tannin, bgs., c.l., ex dock, in bond..lb. .07¼- —
clarified, 64% tannin, bgs., c.l., same basis..lb. No prices.
35% tannin, bbls., works. lb. No prices.
tanks, works .....lb. No prices.
extract, ground, 70% tannin, bgs., c.l..lb. .12 - .12½
Quebracho extract prices based on $20 freight and $1.00 insurance per long ton.
Queen of the meadow root, bgs. lb. .20 - .22
Quercitron crystals, bbls.....lb. .32 - —
Extract, No. 1, bbls.....lb. .14 - —
solid, bxs. .....lb. .27 - —
Quicksilver, flasks (76 lbs. net) flask.86.00 -87.00
Quince seed, bgs.....lb. 1.30 - 1.75
Quinidine, NF V, cryst., cns.oz. No stocks.
powd., precip., cns.....oz. No stocks.
Sulphate, USP, cns.....oz. No stocks.
Quinine, NF, cns., 100 ozs....oz. No stocks
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs. oz. No stocks
Citrate, cns., 100 ozs.....oz. No stocks
Dihydrobromide, bots., 50 ozs. oz. No stocks
Ethylcarbonate, USP, cns., 100 ozs..oz. No stocks
Ferrocyanide, cns., 100 ozs..oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Hydrochloride, USP, cns., 100 ozs..oz. .80½- —
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydroiodide, cns., 100 ozs..oz. No stocks
Hypophosphite, cns., 100 ozs.oz. No stocks
Phosphate, NF, cns., 100 ozs.oz. No stocks
Salicylate, NF, cns., 100 ozs.oz. No stocks
Sulphate, USP, cns., 100 ozs.oz. .80½- —
Sulphocarbolate, cns., 100 ozs. oz. No stocks
Tannate, USP X, cns., 100 ozs. oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs....oz. No stocks
Quinine-urea hydrochloride, USP, cns..oz. No stocks
Quinoline, dms., c.l., works...lb. .32 - .50

R

R salt, dry, bbls.....lb. .72 - —
paste, dms. .....lb. .57 - —
Raspberries, dried, bls.....lb. 2.20 - 2.25
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. 1.75 - 2.05
Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher dlvd. Pacific Coast prices equaled with Chicago dlvd. Denver, Pueblo, Salt Lake City, Wichita.
Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb. 1.25 - —
light shade, bbls., same basis..lb. 1.10 - —
maroon, bbls., same basis. lb. 1.35 - 1.45
medium shade, bbls., same basis..lb. 1.20 - —
medium-light shade, bbls., same basis..lb. 1.20 - —
Orange-red, bbls., same basis..lb. 1.15 - 1.20
Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.
Carmine, No. 40, dms., bulk, works..lb. 5.50 - 5.65
smaller lots, same basis..lb. 6.10 - 6.15
Crocus martis (see Red, purple, oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works....lb. 1.35 - —
Firetoner, dom., bbls., works.lb. .85 - .92
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y..lb. .11¼- —
80-85%, bgs., same basis.lb. .09½- —
imp., English, all shades..lb. .16 - —
Iron oxide, pure, bbls.....lb. .10 - .10¼
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., and E. St. Louis..lb. .06¾- —
80% copperas oxide, bbls., same basis..lb. .085 - .094
Lacquer, maroon, bbls., works. lb. 1.25 - —
Lake C toner, alizarin, bbls., works..lb. 1.05 - —
Lithol toner, alizarin, lake, bbls., works..lb. .70 - —
Pink, bbls., works.....lb. .20 - .25
Rose lake, bbls., works.....lb. .25 - .28
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.30 - —
Maroon, alizarin lake, 25%, kgs., works..lb. .40 - —
Cadmium, bbls., works.....lb. 1.10 - —
deep, bbls., same basis..lb. 1.20 - —
Maroon, in smaller pkgs., 5c. per lb. higher.
Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.30 - —
smaller lots, works...lb. 2.32 - —
Metallic, bbls., works.....lb. .02 - —
Oxide (see Red, iron oxide).
Para toner, chlorinated, kgs.lb. .97 - —
concent., alizarin lake, kgs., works..lb. .80 - —
Persian (see Orange).
Phloxin toner (see Red, eosin toner).
Phosphotungsic, rhodamine, Y, kgs., works..lb. 4.15 - —
Purple lake, kgs.....lb. 1.35 - —
Scarlet ink toner, kgs., works. lb. .55 Nom.
Spanish oxide, grade 1, c.l., bbls..lb. .06½- .07
Toluidin toner, alizarin lake, kgs., works..lb. 1.25 - —
MNPT maroon toner, kgs., works..lb. 3.25 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .11 - —
Venetian, 15%, bgs., works...lb. .0300- —
20%, bgs., works.....lb. .0310- —
25%, bgs., works.....lb. .0340- —
30%, bgs., works.....lb. .0365- —
35%, bgs., works.....lb. .0395- —
40%, bg.s, works.....lb. .0420- —
Vermillion, Amer., bbls.....lb. .22¼- .48
Quicksilver, bbls.....lb. 2.50 - 2.65
Red precipitate, NF, powd., fib. dms..lb. 2.48 - 2.50
Red saunders wood, grd., bbls.lb. .35 - —
Resorcinol tech., dms., works.lb. .68 - —
USP, cryst., dms., works....lb. 1.70 - —
Rhatany root, bgs.....lb. .13 - .14
Rhubarb, whole, cs.....lb. .95 - 1.00
powd., bbls.....lb. 1.05 - 1.10
Riboflavin, bots.....kilo.200.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif., seller's option. lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs., 1 ship't..lb. .84¼- —
smaller lots.....lb. .85 - —
Rose flowers, pale, bls.....lb. .24 - .26
Rosemary flowers, bls.....lb. 1.55 - 1.65
Leaves, French, bls.....lb. .13 - .14
Portuguese, bls.....lb. .06½- .09
Spanish, bls.....lb. .12½- .13
Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B (resin), dms., c.l., works..100 lbs. 6.60 - —
FF, dms., c.l., works.100 lbs. 7.50 - —
G, H, I, dms., c.l., works.. 100 lbs. 8.80 - —
K, dms., c.l., works..100 lbs. 8.80 - —
M, dms., c.l., works..100 lbs. 8.85 - —
N, dms., c.l., works..100 lbs. 8.90 - —
WG, dms., c.l., works.100 lbs. 8.95 - —
WW, dms., c.l., works.100 lbs. 9.00 - —
X, dms., c.l., works..100 lbs. 9.10 - —
Rotenone, bbls., works.....lb.20.00 -24.00
extract, liq., dms., works.... per unit. 1.75 - —
powder (see Cube root).
Rottenstone, bgs., c.l., mines.ton.36.00 - —
l.c.l., mines.....ton.43.00 - —
Rue, bls.....lb. .45 - .49

NATURAL BICHROMATES

INDISPENSABLE for Leather-Textiles Dyes-Paints Chemicals and other Industries

• BICHROMATE OF SODA •

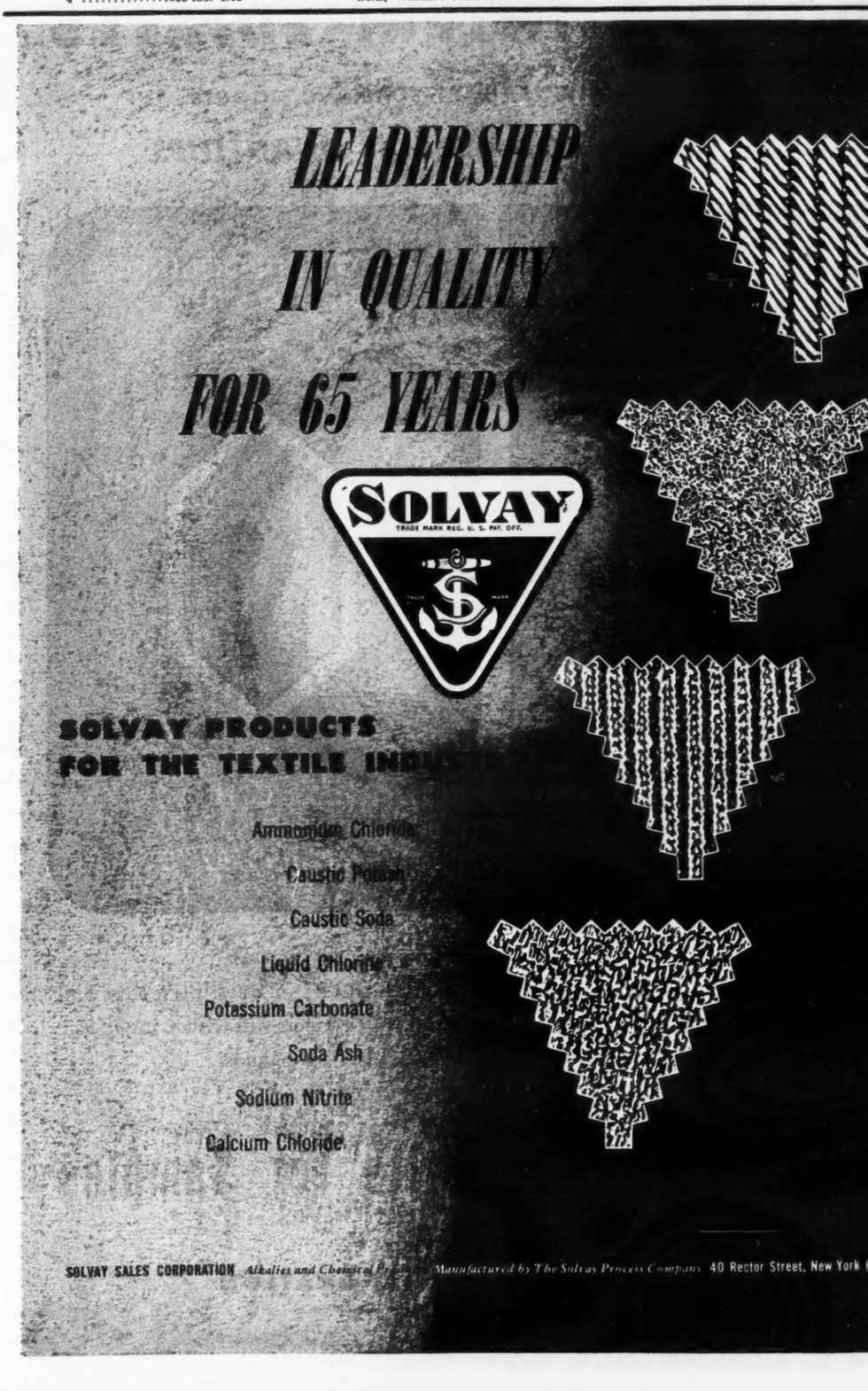
BICHROMATE OF POTASH

Naturally— You can depend on "Natural"

NATURAL PRODUCTS REFINING CO.
JERSEY CITY, NEW JERSEY

S

Sabadilla seed, powd., bbls....lb. .55 - .70
activated, ground, with lime, bbls..lb. .35 - .50
Saccharin, insoluble and soluble, 1,000 lbs. and up..lb. 1.30 - 1.35
smaller lots.....lb. 1.40 - 1.50
Saffron, Mexican, bls.....lb. 1.55 - 1.60
Spanish, USP, tins.....lb.38.00 -39.00
Safrol, cns.....lb. 1.10 - 1.45
Sage, Cyprus, good, bls.....lb. .18 - .18½
futures.....lb. .18½- .19
Dalmatian, bls.....lb. .30 - .31
Greek, bls.....lb. .25 - .28
Palestine, bls.....lb. .16 - .16½
Spanish, bls.....lb. .15 - .15½
Syrian, bls.....lb. .25 - .25½
Sago flour, bgs.....lb. .07 - .07½
Salicin, bots., 25 lbs.....lb. No stocks
cns., 25 lbs.....lb. No stocks
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs.....lb. 1.00 - —
fib. dms.....lb. 1.02 - 1.08
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton.17.50 - —
l.c.l., bgs.....ton.21.70 - —
vacuum, common, fine, bgs., c.l..ton.18.60 - —
l.c.l. .....ton.25.10 - —
Saltcake, dom., bulk, works..ton.20.00 -26.00
Chrome (see Chrome cake).
Saltpeter, cryst., bbls., 10 tons. 100 lbs.12.40 - —
smaller lots, bbls....100 lbs.12.65 -12.90
gran., bbls., 25 tons.....100 lbs. 8.00 - —
smaller lots .....100 lbs. 9.00 - 9.50
powd., bbls., 20 tons.....100 lbs. 9.00 - —
smaller lots .....100 lbs.10.00 -10.50
Saltpeter in bags is 25c. per 100 lbs. less than in barrels; in kegs it is $1 more.
Sanguinarine nitrate, bots....oz. 4.75 - 5.50
Santonin, cryst., powd., cns.kilo.170.00 -175.00
Saponin, No. 1, cns.....lb. 1.75 - 1.90
No. 2, cns.....lb. 1.40 - —
Sarsaparilla root, dom., bls...lb. .45 - .50
Honduras .....lb. .55 - .56
Mexican, bls.....lb. .60 - .65
Sassafras bark, ord., bls.....lb. .45 - .50
select, bls.....lb. .65 - .70
Savory, French, bls.....lb. .21 - .21½
Saw palmetto berries, bgs.....lb. .24 - .25
Scammony resin, lump, cns...lb. 1.30 - —
powd., cns.....lb. 1.35 - —
Root, bgs.....lb. .10 - .12½
Schaeffer's salt, bgs.....lb. .60 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .27½- —
smaller lots.....lb. .28¼- —
kegs, 5,000 lbs., 1 shipm't..lb. .28¼- —
smaller lots.....lb. .28¾- —
Selenium, pwd., cns., 10-lb. lots.. lb. 1.85 - —
cs., 1,000-lb. lots.....lb. 1.75 - —
Senega root, bls.....lb. 2.25 - 2.35
Senna leaf, Alex., half-leaf, bls. lb. .27 - .28
siftings, bgs.....lb. .24 - .26
Tinnevelly, No. 1, bls.....lb. .25 - .27
2 bls.....lb. .23 - .25
3, bls.....lb. .21 - .23
powd., bbls., bgs.....lb. .24 - .29
Pods, bls.....lb. .53 - .54
Serpentaria root, bls.....lb. No stocks
Shellac, bleached, bonedry, bbls., 1,500-lb. lots..lb. .65 - —
Boston .....lb. .66 - —
Chicago .....lb. .66½- —
Pacific coast .....lb. .68½- —
refined, bbls., 1,500-lb. lots. lb. .73 - —
Boston .....lb. .74 - —
Chicago .....lb. .74½- —
Pacific coast .....lb. .76½- —
Bonedry shellac sales of less than 1,500 lbs., at following additions to prices: (1) packed in bgs., ¼c. per lb.; (2) bbls., 1c. more; (3) kgs., 3c. more.
Superfine, 100 bgs., Boston, N. Y..lb. .64 - —
Chicago .....lb. .64½- —
Pacific coast .....lb. .67 - —
TN, 100 bgs., Boston, N. Y..lb. .62 - —
Chicago .....lb. .62½- —
Pacific coast .....lb. .64½- —
Shellac in cs., 2c. higher. Shellac sales 1 bg. or 1 cs., 5c. additional; 1 to 9 bgs. or cs., 2c. more; 10 to 99 bgs., cs., 1c. more.
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works. ton.17.00 - —
l.c.l., works .....ton.20.00 - —
400 mesh, bgs., c.l., works. ton.18.00 - —
l.c.l., works .....ton.19.00 -20.00
wet-grd., 320 mesh, bgs., c.l., works..ton.18.00 - —
l.c.l., works .....ton.21.00 - —
400 mesh, bgs., c.l., works, ton.30.00 - —
l.c.l., works.....ton.35.00 -38.00
99%-99½%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works .....ton.21.50 -23.00
99%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works .....ton.22.00 -25.00
hard-quartz, 99½%, 325 mesh, bgs., c.l. works..ton.13.50 - —
l.c.l., works .....ton.13.50 - —
140 mesh, bgs., c.l., works.. ton.11.00 - —
l.c.l., works .....ton.16.00 - —
Tetrachloride, tech., dms., c.l., works..lb. .15½- —
l.c.l., works .....lb. .16½- .27
Silver bullion .....oz. .76 - —
Cyanide, cns., 100 ozs.....oz. .75¾- —
Nitrate, 250-oz. bots., 2,500-oz. lots..oz. .50¾- —
1,000-oz. lots .....oz. .50¾- —
500-oz. lots .....oz. .51¼- —
single 250-oz. lots.....oz. .51¾- —
Neucleinate, USP, bots., dms., 1,000-oz. lots..oz. .45 - —
Proteinate, USP, bots., dms., 1,000-oz. lots..oz. .40 - —
Simarubra bark, bls.....lb. .87 - .88
Skullcap, Eastern, bls.....lb. .85 Nom.
Western, bls.....lb. .30 - .35
Skunk cabbage root, bls.....lb. .45 - .50
Slate flour, bgs., c.l., works.ton.11.00 -12.00
l.c.l., ex whse. .....ton.20.00 - —
Sloe berries, bgs. .....lb. .39 - .40
Smalt, black, ctns. .....lb. .06 - .06
Blue, ctns. .....lb. .07 - .08½
Snakeroot, Canada, bls.....lb. .63 - .65
Soapbark, bls. .....lb. .27 - .28
crushed, bls., bbls.....lb. .32 - .33
cut, imp., bbls. .....lb. .32 - .33
powd., bbls. .....lb. .30 - .31
Soda acetate, anhyd., dms., dlvd. lb. .06½- .10
cryst., NF, bbls., kgs.....lb. .14 - .16
tech., 60%, l.c.l., dlvd....lb. .05½- .06
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms.....lb. 1.50 - 1.60
Alkylbenzene sulphate, dms., works..lb. .13 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.50 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works.. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.50 - 8.00
Antimoniate, bbls., dlvd.....lb. .10 - .16½
Soda arsenate, dealers, dms., c.l., works..lb. .12 - —
l.c.l., works.....lb. .13½- .13¾
Arsenite, grey, dms., dealers, c.l., works..lb. .10¾- —
l.c.l., works.....lb. .13¼- .13¾
Soda arsenite, gray ¾c. higher in Chi., 2c. higher in Houston, Tex., and Palo Alto, Calif.
Ash, dense, 58%, bgs., c.l.... 100 lbs. 1.28 - —
l.c.l., dlvd., zone 1.... 100 lbs. 2.63 - —
2 .....100 lbs. 2.78 - —
3 .....100 lbs. 3.13 - —
4 .....100 lbs. 3.73 - —
bbls., c.l., works, zone 1.. 100 lbs. 1.68 - —
l.c.l., zone 1.....100 lbs. 3.03 - —
2 .....100 lbs. 3.18 - —
3 .....100 lbs. 3.53 - —
4 .....100 lbs. 4.13 - —
bulk, c.l., works..100 lbs. 1.08 - —
extra light, 58%, bgs., c.l.... 100 lbs. 1.30 - —
l.c.l., dlvd., zone 1.... 100 lbs. 2.65 - —
2 .....100 lbs. 2.80 - —
3 .....100 lbs. 3.15 - —
4 .....100 lbs. 3.75 - —
light, 58%, bgs., c.l., zone 1. 100 lbs. 1.20 - —
l.c.l., dlvd., Zone 1.... 100 lbs. 2.55 - —
2 .....100 lbs. 2.70 - —
3 .....100 lbs. 3.05 - —
4 .....100 lbs. 3.65 - —
bbls., c.l., work..100 lbs. 1.60 - —
l.c.l., dlvd., Zone 1.. 100 lbs. 2.95 - —
2 .....100 lbs. 3.10 - —
3 .....100 lbs. 3.45 - —
4 .....100 lbs. 4.05 - —
Soda ash, light, bulk, c.l..100 lbs. 1.00 - —
Prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse.
Soda ash sales zones are: (1) All States E. of Miss. R. and N. of south bound. of Ky. 31°, Tex. E. of 100°, S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark., E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 98°, Kans., Neb., W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.
Benzoate, tech., bbls., 2 tons or more..lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons or more, lb. .46 - —
smaller lots.....lb. .47 - .52
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.25 - —
l.c.l. .....100 lbs. 2.57½- 2.50
Bichromate, bgs., c.l., works.. lb. .08¼- —
l.c.l., works.....lb. .08¾- .08⅞
Soda bichromate, in bbls., ¼c. higher.
Bifluoride, bbls., c.l., frt. alld. E..lb. .11½- —
l.c.l., same basis.....lb. .13 - .14
kgs., same basis.....lb. .12½- .14
Bisulphite, powd., bbls., c.l., works..100 lbs. 3.00 - 3.25
l.c.l., works.....100 lbs. 3.50 - 3.60
solut., 32°, bbls., c.l., works. 100 lbs. 1.30 - —
l.c.l., works.....100 lbs. 1.55 - —
Soda bisulphite, solut., 35°, bbls., c.l., works..100 lbs. 1.40
l.c.l., works.....100 lbs. 1.65
40°, bbls., c.l., works.100 lbs. 1.55
l.c.l., works.....100 lbs. 1.80
Bromide, USP, gran., bbls., 500 lbs., works..lb. .25
dms., works.....lb. .25
Cacodylate, bots., dms.....lb. 8.50
Carbonate (see Soda ash, Soda monot Soda sal).
Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 2.90
l.c.l., zone 1, dlvd..100 lbs. 4.25
2, dlvd.....100 lbs. 4.40
3, dlvd.....100 lbs. 4.75
4, dlvd.....100 lbs. 5.35
liquid, 50%, buyers' tanks, works, dry basis..100 lbs. 2.00
sellers, tanks, works, dry basis..100 lbs. 2.10
70%, sellers' tanks, works, dry basis..100 lbs. 2.10
solid, 76%, dms., c.l., works. 100 lbs. 2.50
l.c.l., zone 1, dlvd..100 lbs. 3.85
2, dlvd.....100 lbs. 4.00
3, dlvd.....100 lbs. 4.35
4, dlvd.....100 lbs. 4.95
Prices f.o.b. stock points in zones in Minimum quantity 500 lbs. For l 500 lbs., prices are ex-warehouse.
Caustic soda zones are same as s
Chlorate, cryst., bgs., c.l., works..lb. .06
l.c.l., works.....lb. .06
powd., kgs., c.l., works....lb. .06
l.c.l., works.....lb. .07
Chloride (see Salt).
Chromate, bgs., c.l., works, frt. equald..lb. .09
l.c.l., works, frt. equald..lb. .09
Soda chromate in bbls., ¼c. higher



Soda citrate, USP VIII, bbls..lb. .18½- —
dms. .19½- .22½
USP XII, gran., bbls.....lb. .24 - —
dms. .25 - .29
powd., bbls.....lb. .24½- —
dms. .25½- .29½
Cyanide, 96-98%, dms.....lb. .14½- .15
Diacetate, 33-35% acidity, bbls., works, dlvd..lb. .09½- .10½
anhydrous, dms., works....lb. .11½- .13
Fluoride, white, 90%, bbls., c.l., works..lb. .09½- —
l.c.l., works.....lb. .09¾- —
95%, bbls., c.l., works...lb. .09¾- —
l.c.l., works.....lb. .10 - —

Soda fluoride prices at Los Angeles are f.a.s. works.

Formate, bgs., c.l., works...lb. .0605- .065
l.c.l. .07 - .0790
Glutamate, monobasic, kgs..lb. 1.46 - 1.48
Glycerophosphate, N.F., cryst., bbls..lb. 1.90 - —
powder, bbls.....lb. 1.95 - —
solution, 75%, cbys.....lb. 1.10 - —
50%, cbys.....lb. .85 - —
Hydrosulphite, dms., c.l., frt. alld..lb. .18½- .19
l.c.l., frt. alld.....lb. .19 - .20
Hydroxide, USP, sticks, dms.lb. .24 - .29
Hypophosphite, NF, cns.....lb. .67 - .70
Hyposulphite, cryst., bgs., c.l., works, frt. equald..... 100 lbs. 2.25 - —
l.c.l. same basis..100 lbs. 2.50 - —
pea, cryst., bgs., works.100 lbs. 2.60 - —

Soda, hyposulphite, crystals, in bbls., 20c. higher; pea crystals, dms., 50c. higher.

USP, cryst., bbls.....lb. .10 - .12
Iodide, dms., jars.....lb. 2.72 - 2.83

Soda mandelate, dms.....lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works..ton.90.50 - —
ton lots, works.....ton.108.00 - —
less ton lots, works..ton.113.00 - —

Ammonia metaborate in bbls., $20 per ton higher.

Metanilate, bgs. .....lb. .48 - —
Metasilicate, anhyd., bbls., c.l., works..100 lbs. 4.00 - —
gran., bgs., c.l., works..... 100 lbs. 3.00 - —
l.c.l., New York..100 lbs. 3.90 - 4.25
bbls., c.l., works...100 lbs. 3.40 - —
l.c.l., New York...100 lbs. 4.30 - 4.75
Methylate, bots., works.....lb. 1.00 - —
cns., works.....lb. .55 - .60
dms., works.....lb. .45 - .60
Molybdate, anhyd., kgs., works. lb. .47 - —
crystals, bgs., works.....lb. .50 - —
Monohydrate, bgs., c.l..100 lbs. 2.00 - —
works .....100 lbs. 2.45 - —
Naphthionate, bbls.....lb. .46 - —
Nitrate, dom., crude, 100-lb. bgs., c.l., works..ton.35.00 - —
bulk, c.l., works.....ton.32.00 - —
refd., gran., bbls., 10 tons.. 100 lbs. — - —
smaller lots.....100 lbs. — - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse..ton.41.50 - —
bulk, same basis.....ton.38.50 - —
Nitrite, 96-98%, bbls., c.l., works, frt. equald..lb. .06¾- —
West coast, ports.100 lbs. 8.00 - 8.00
l.c.l., dlvd.....100 lbs. 8.90 -11.00
Orthosilicate, anhyd., bbls., c.l., works, frt. equald..100 lbs. 4.00 - —
l.c.l., same basis.100 lbs. 5.45 - 5.80
flake, lbs., c.l., works.100 lbs. 3.10 - —
l.c.l., dlvd.....100 lbs. 4.30 - 4.55

Soda oxalate, neut., bgs., works. lb. .10 - —
Pantothenate, dextrorotary, 100-gram bots..per gram. .10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .19
powd., bgs., c.l., works, frt. equald..lb. .16 - .16½
l.c.l., works, frt. equald.lb. .17 - —
kgs., l.c.l., works, frt. equald. lb. .19 - —
Perborate, NF, bbls., c.l., works..lb. .14¾- —
l.c.l., works.....lb. .15½- —
Peroxide, dms., c.l., dlvd. E. of Miss..lb. .14 - —
smaller lots .....lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works.. 100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works.. 100 lbs. 3.50 - —
l.c.l., works....100 lbs. 3.75 - 3.90
USP XII, dried, bbls., dms., works..lb. .159 - —
monobasic, anhydrous, bgs., works..100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 7.65 - 9.00
tribasic, anhydrous, bgs., c.l., works, frt. equald.100 lbs. 7.00 - —
l.c.l., same basis.100 lbs. 7.50 - 8.00
cryst., bgs., c.l., works.... 100 lbs. 3.50 - —
l.c.l., same basis.100 lbs. 3.90 - —
kgs., c.l., works..100 lbs. 4.20 - —
l.c.l., works....100 lbs. 4.40 - —

Soda phosphate in bbls. 40c. higher. USP (see Sodium phosphate, dibasic).

Prussiate, yellow, bgs.....lb. .12 - —
bbls. .....lb. .12¼- —

Soda pyrophosphate, acid, bgs., works, frt. equald..100 lbs.10.00 -11.35
ferric, dms., 10,000 lbs., works..lb. .22 - —
smaller lots, works.....lb. .22½- —
tetrabasic, anhydrous, bgs., c.l., works, frt. equald. 100 lbs. 6.00 - —
Ricinoleate, tech., bbls.....lb. No stocks.
Sal, bgs., c.l. .....100 lbs. 1.35 - —
works, c.l. .....100 lbs. 1.10 - —
bbls., c.l. .....100 lbs. 1.40 - —
works, c.l. .....100 lbs. 1.20 - —
Salicylate, dms. .....lb. .57 - .60
Sesquicarbonate, bgs., c.l., works..100 lbs. 1.50 - —
bbls., c.l., works....100 lbs. 1.70 - —
l.c.l., zone 1, dlvd..100 lbs. 2.70 - —
2, dlvd. .....100 lbs. 2.85 - —
3, dlvd. .....100 lbs. 3.10 - —
4, dlvd. .....100 lbs. 3.50 - —

Soda sesquicarbonate l.c.l. price zones are same as those for soda ash.

Sesquisilicate, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., dlvd. .....100 lbs. 5.15 - 5.30
Silicate, 40°, turbid., dms., c.l., works..100 lbs. .95 - 1.15
l.c.l., works.....100 lbs. 1.20 - 1.30
tanks, works .....ton.15.00 - —
52°, turbid, dms., c.l., works, 100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - 2.00
tanks, works .....ton.27.00 - —
Silicofluoride, bbls., c.l., works, lb. .07½- —
l.c.l., works .....lb. .08¾- —
Stannate, dms., works, frt. alld. E..lb. .43½- .47½
Stearate, bbls., works.....lb. .19 - .24
Sulphate, NF, dried, powd., bbls..lb. .10 - .10½
tech., anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt).
USP, cryst., gran., bbls...lb. .07 - .07½
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.90 - —
l.c.l., dlvd. .....100 lbs. 3.65 - 3.90
solid, bbls., c.l., wks.100 lbs. 3.05 - —
l.c.l., dlvd.....100 lbs. 4.15 - 4.50
Sulphite, cryst., bgs., c.l., works..100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - —
bbls., c.l., works....100 lbs 2.30 - —
l.c.l., works .....100 lbs. 2.55 - —
powd., bbls., c.l., works, 100 lbs. 5.25 - —
l.c.l., works .....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP IX, gran., bbls., dms..lb. .28 - .33
powd., bbls. .....lb. .30 - .35
Sulphocyanide, CP, dms....lb. .55 - .65
Sulphohydrate, flake, 70-72%, dms., c.l..lb. .05 - —
l.c.l. .....lb. .05½- —
liquid, 38%, tanks, basis 100%, works..lb. .04 - —
Sulphoxylate, formaldehyde, dms., c.l., works, frt. alld..lb. .17½- —
Sulphoricinoleate, bbls. ....lb. .12 - —
Thiocyanate (see Soda, sulphocyanide).
Tripolyphosphate, bgs., works, frt. equald..lb. .07¼- .08½
Thiosulphate (see Soda hyposulphite).
Tungstate, tech., bgs.....lb. 1.35 - —
Soda-ammonia phosphate, bbls., works, frt. equald..lb. .23 - —
Soda - cinchophen, bots., dms., works..lb. 5.00 - 5.10
Soda-formaldehyde sulphoxalate, stand. cont., 125-250 lbs..lb. .19 - .22
Soda-sulphadiazin, USP, dms., works..lb.10.50 -10.60
Soda-sulphamerazin, dms., works, lb.10.50 -10.60
Soda-sulphapyridin, powd., bots., dms., works..lb. 5.00 - 5.30
Soda-sulphathiazole, USP, dms., works..lb. 3.00 - 3.30
Solvent naphtha, dms., wks..gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
Minnequa, Colo.....gal. .23 - —
high-flash, dms., works....gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. to 3½c. per gal..gal. .27 - —
Sorbitol, com'l, dms., c.l., works. lb. .25½- —
l.c.l., works.....lb. .26 - .35
Soybean protein, alpha, bgs., 40,000 lbs., works..lb. .28 - —
20,000 lbs., works.....lb. .28¼- —
smaller lots, works...lb. .28½- .32
Sparteine sulphate, bots., cns.oz. 2.95 - 3.25
Spearmint leaves, bls.....lb. .52 - .53
Spikenard root, bls.....lb. .50 - .55
Spruce extract, liq., reg., tanks, works .lb. .01¾- —
pwd., super, bgs., c.l., wks.lb. .05¼- —
Squaw vine, bls.....lb. .53 - .55
Squill, red, fortified, powd., bbls., bxs..lb. 1.60 - —
White, bls.....lb. .10 - .12
powd., bbls., bxs.....lb. .16 - .20
St. Ignatius beans, bgs.....lb. No stocks
St. John's bread, edible, bls...lb. .12 - .18
Starch.. corn, pearl, bgs., c.l.... 100 lbs. 5.12 - —
l.c.l. .....100 lbs. 5.27 - —
Chicago, c.l.....100 lbs. 4.67 - —
powd., bgs., c.l.....100 lbs. 5.23 - —
l.c.l. .....100 lbs. 5.38 - —
Chicago, c.l.....100 lbs. 4.73 - —

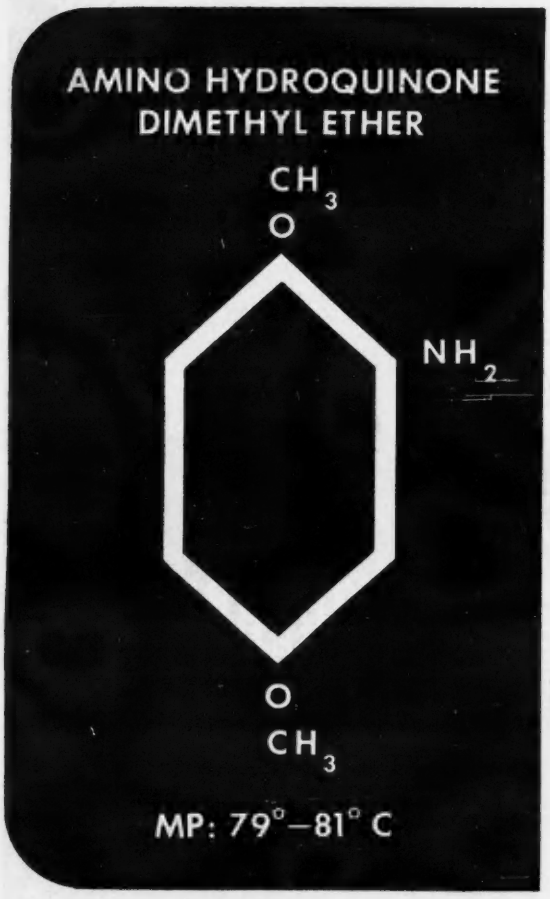
Cornstarch prices above are for paper bags; cotton bags are 20c. higher.

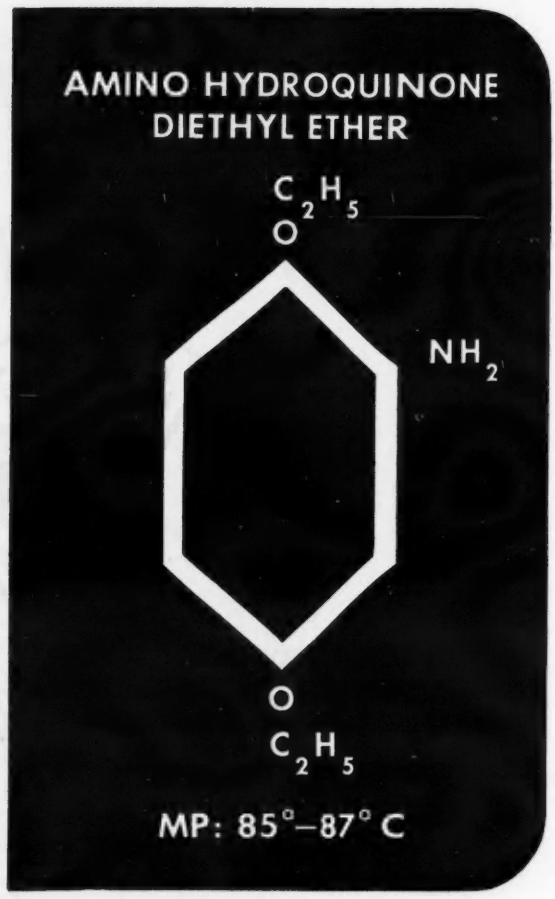
Potato, bgs., c.l.....lb. .08¾- .09
l.c.l. .....lb. .09¼- —
Rice, bgs., c.l..... .....lb. No stocks
Sweetpotato, bgs.....lb. No stocks
Wheat, bgs.....lb. .0560- .0630
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .45 - .50
Stoneroot, bls.....lb. .07½- .08
Storax, cs.....lb. 1.00 - 1.10
Stramonium leaves, bgs.....lb. .20 - .25
Seed, bgs.....lb. .20 - .21
Streptomycin, hospitals.....gram. 4.00 - —
wholesalers .....gram. 3.20 - —
Strontium bromide, NF, cns., dms..cs. .50 - .55
Carbonate, 90%, bbls.....lb. .14 - .16
98%, bbls.....lb. .23 - .25
Chloride, tech., bbls.....lb. .22 - .24
mesh 90%, bbls., works.ton.58.00 - —
Chromate, bbls., kgs., Phila.lb. .40 - .42
Iodide, jars, 25 lbs.....lb. 3.00 - 3.06
Lactate, dms.....lb. 1.30 - 1.35
Nitrate, bbls., c.l., works....lb. .07¾- —
l.c.l., works.....lb. .08¼- .08¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb. 1.25 - 1.32
Sulphate, nat., air-floated, 325 mesh, 90%, bbls., works.ton.58.00 - —
Strontium-calcium sulphide, phosphorescent, dms., works..lb. 2.50 - 2.85
Strophanthin, bots.....oz.50.00 -50.00
Strophanthus seed, Kombe, bgs. lb. 2.25 - 2.30
Strychnine, NF, powd., cns., 100 ozs..oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs..oz. 1.60 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10

ORGANIC INTERMEDIATES

for dyes, pigments, light-sensitive papers

AVAILABLE IN COMMERCIAL QUANTITIES





THESE valuable organic intermediates of high purity are now available in commercial quantities for the first time. They are shipped as free base in a form that can be handled readily in your plant. Salt formation, if desired, can easily be accomplished by dissolving in the proper acid solution.

Manufacturers of dyes, pigments, and light-sensitive papers will wish to investigate these chemical compounds.

Write for Samples

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Company)
KINGSPORT, TENNESSEE

Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .50 - —
tech., bbls., l.c.l., works..lb. .45 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazine, USP, dms., works. lb. 9.00 - 9.10
Sulphaguanidin, dms., works..lb. 4.50 - 4.60
Sulphamerazin, dms., works..lb. 9.00 - 9.10
Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 30-60 mesh, 10c. higher.
Sulphapyridin, powd., bots., tins, works..lb. 5.00 - 5.30
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.30
Sulphonethylmethane, kgs.....lb. 6.75 - 6.85
Sulphonmethane, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.16.00 - —
vessels, Gulf ports, contract..long ton.17.50 - —
export .....long ton.20.00 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.15 - —
precipitated, USP, bbls., kgs.lb. .18 - .56
refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works.....100 lbs. 3.50 - 3.90
heavy, bgs., c.l., works.... 100 lbs. 2.85 - —
l.c.l., works.....100 lbs. 3.20 - 3.60
light, bgs., c.l., works.100 lbs. 2.93 - —
l.c.l., works.....100 lbs. 3.30 - 3.60
flowers, USP, bgs., c.l., works. 100 lbs. 3.30 - —
l.c.l., works.....100 lbs. 3.65 - —
Refined sulphur flowers in bbls., 35c. higher.
bbls., c.l., works.....100 lbs. 2.45 - —
l.c.l., works.....100 lbs. 2.80 - —
roll, bbls., c.l., works.100 lbs. 2.65 - —
l.c.l., works.....100 lbs. 3.00 - 3.40
rubbermakers', bgs., c.l., wks. 100 lbs. 2.15 - 2.60
Sulphur chloride, 25-gal. dms., c.l., works..lb. .03 - .03½
l.c.l., works .....lb. .04 - .04½
10-gal. dms., c.l., works..lb. .07 - .07½
l.c.l., works.....lb. .08 - .08½
Dioxide, liquid, com'l, cyls., c.l., works..lb. .065 - —
l.c.l. .....lb. .096 - —
multi-unit cars, works..lb. .06 - —
tanks, works .....lb. .044 - —
refrigeration, cyls., l.c.l., works..lb. — - —
Iodide, bots, jars.....lb. 3.96 - 4.11
Sumac bark, grd., ex dock...ton.105.00 - —
Extract, No. 1, bbls.....lb. .10½ -
No. 2, bbls.....lb. .09 - —
crystals, bbls. .....lb. .40 - —
stainless, bbls. .....lb. .11 - .13½
Leaves, ex dock.....ton.105.00 - —
Superphosphate, pulverized, run-of-pile under 22% a.p.a. Balto..unit-ton. .74 - —
Florida .....unit-ton. .58 - .88
others .....unit-ton. .87 - .89

Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash. 86½c. per unit-ton plus frt. charges from Anaconda, Mont., in excess of $8.03 per ton; guaranteed 16, 19 or 20% a.p.a., ½c. per unit-ton higher.

triple, 46% or more a.p.a., bulk, producing point, Florida. unit-ton. .71 - —
South Carolina..unit-ton. .75 - —
Tennessee .....unit-ton. .80 - —
Other States and D.C., 71c. per unit ton plus frt. charge for 47% from E. Tampa, Fla.

Superphosphate, gran., 2c. per unit-ton higher than pulverized.

Sweet basil, bls.....lb. 1.10 - 1.20

T

Talc, dom., ordinary, grd., bgs. c.l., works..ton.14.50 -24.50
l.c.l., works.....ton.16.50 -30.00
Calif., bgs., c.l., wks..ton.22.00 -30.00
Pennsylvania, bgs., c.l., works..ton.11.00 -13.50
l.c.l., works.....ton 12.00 -14.50
Vermont, bgs., c.l., works. ton.14.00 - —
l.c.l., works.....ton.17.50 - —
fibrous, grd., off-color, New York, bgs., c.l., works ton.15.00 - —
325 mesh, 98-98%, bgs., c.l., works ton.17.50 - —
98 - 99.5%, bgs., c.l., works..ton. No prices.
99.95-99.95%, bgs., c.l., works..ton. No prices.
imp., Canada, bgs., c.l.....ton.35.00 -44.00
Tallow, inedible, extra, loose..lb. .21½- —
fancy, loose .....lb. .22 - —
special, loose .....lb. .21½- —
sulphonated, 25%, dms.....lb. .11½ Nom.
50%, dms.....lb. .17 Nom.
Tamarind, bbls.....lb. .12 - .13½
Tankage, animal, feed grade, 9-11% ammon., bulk. unit-ton. 9.00 - —
Chicago .....unit-ton. 9.00 - —
fert. grade, 9% ammon., 10% b.p.l., bulk .unit-ton. No stocks
10-11% ammon., 15% b.p.l., bulk, Chicago..unit-ton. No stocks
Tansy leaves, bls.....lb. .15 - .16
Tapioca flour, Brazilian, bgs...lb. .07½- .12½
Java, bgs.....lb. No stocks
Tar acid, oil, 15-18%, ret. dms., c.l., works..gal. .35 - .38
l.c.l., works .....gal. .38 - .41
25%, dms., c.l., works..gal. .41 - .45
l.c.l., works .....gal. .44 - .48
Tar, pine (see Pinetar).
Tara pods, c.l., ex dock U. S. ports..long ton. No prices
powd., c.l., same basis.long ton. No prices
Tarragon herb, bgs. .....lb. .60 - .65
Leaves, bgs. .....lb. 1.20 - 1.25
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .41 - —
dms. .....lb. .41½- .44
USP, powd., bbls., dms., kgs. lb. .45 - .48
Terpin hydrate, com'l, bbls., c.l., lb. .24½- —
l.c.l. .....lb. .25 - .25½
USP, cryst., bbls., dms...lb. .70 - .75
powd., bbls., dms.....lb. .75 - .80
Terpineol, Alpha (see A).
com'l, dms., c.l., South.....lb .13½- —
l.c.l., South .....lb .14 - —
tanks, South .....lb .12 - —
pure, dms. .....lb. .86 - .89
extra, dms .....lb. .65 - .70
Terpinglycol ether, dms. (extra), c.l., works..lb. .19½- —
l.c.l., works.....lb. .20 - —
tanks, works .....lb. .19 - —
Terpinyl acetate, extra, cns., dms. lb. .95 - 1.01
prime, cns., dms.....lb. .82 - .85
Terra alba (see Gypsum).
Tetrachloroethane, dms., works, lb. .08 - .08½

Tetrachloroethylene, NF VI, 55-gal. dms., works..lb. .20 - .21½
smaller dms., works.....lb. .23½- .25
tech. (see Perchloroethylene). works..lb. .65 - —
Tetraethyl orthosilicate, dms., works..lb. .65 - —
Tetrapotassium pyrophosphate (see Potash phosphate).
Tetrasodium pyrophosphate (see Soda pyrophosphate).
Thallium sulphate, 90%, bots., works..lb.20.00 - —
Theobromine, dms., 25-lb. lots..lb. 3.75 - —
smaller lots .....lb. 3.95 - 4.10
Thiamine hydrochloride, dms., 100 grams or more..kilo 160.00 - —
Thiocarbanilide, dms. .....lb. .24 - —
Thiouracil, dms., works.....lb 5.50 - 5.60
Thioures, CP, dms.....lb. .35 - .36
Thorium nitrate, cs., works..lb 2.00 - —
Thyme, French, bgs.....lb. .16½- .17
futures, bgs. .....lb. .15½- .16
Spanish, bls.....lb. .11½- .12
Thymol, cns. .....lb. No prices.
Iodide, dms.....lb 4.25 - —
Timbo root (see Cube root).
Tin crystals, bgs., bbls., works. lb. .60 - —
Metal .....lb. .80 - —
Bolivian .....lb. — - —
Straits .....lb. .80 - —
Oxide, bbls.....lb. .82 - —
Tetrachloride, anhydr., dms., works..lb. No stocks.
Titanium dioxide, chalk resistant, bgs., c.l., dlvd..lb. .15½- —
l.c.l., dlvd. .....lb. .15½- —
nonchalking, bgs., c.l., dlvd., E..lb. .17½- —
l.c.l., dlvd. .....lb. .17½- —
plain, bgs., c.l., dlvd.....lb .15½- —
l.c.l., dlvd .....lb. 15½- —
Hydride, cns., works.....lb 7.00 - 8.00

Titanium pigment, barium base, bgs., c.l., dlvd..lb. .06½- —
l.c.l., dlvd. .....lb. .06½- —
Calcium base, bgs., c.l., dlvd. lb. .06 - —
l.c.l., dlvd. .....lb. .06½- —
Calcium-rutile base, bgs., c.l., dlvd..lb .05 - —
l.c.l., dlvd.....lb. .06½- —
Magnesium base, c.l., dlvd..lb. No prices
l.c.l., dlvd.....lb No prices
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ¼c. higher.
Tetrachloride, CP, 55-gal. dms., works..lb. .57 - —
smaller pkgs., works....lb .65 - 1.22
technical, 55-gal. dms., works lb .32 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns.....lb. 3.50 - 3.75
Toluol (toluene) 2°, indust., ret. dms., works..gal. .28 - —
tanks, E. of Omaha, frt. alld gal. .23 - —
West Minnesqua, Colo...gal. .22 - —

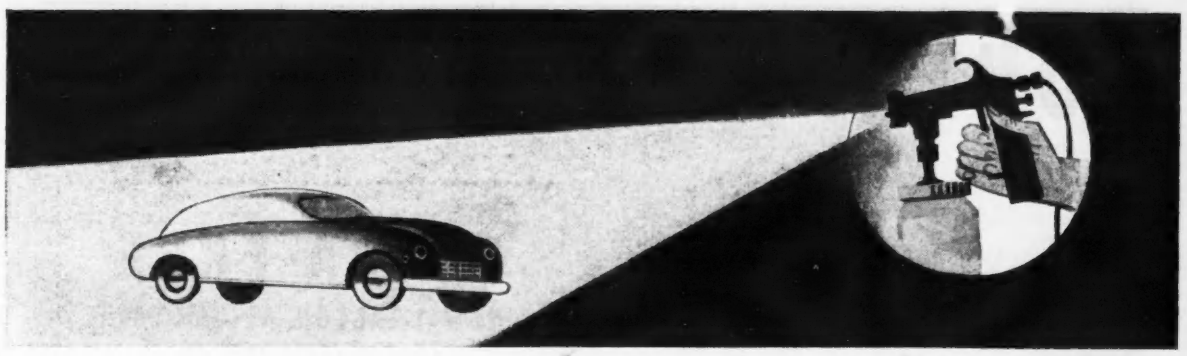
Prices on toluol from petroleum, tanks, delivered (maximum freight allowance in parentheses), are:—Ark., 23c. (Chicago, 23c (2¾c.); Del.-Md.-D. C., 23c (2¾c.); Detroit, 23c. (1 3/10c.); La., 23c.; N. E., 23c (2¾c.); N. J., 23c.; N. Y., 23c.; N. C., 23c (3c.); Pa., 23c. (2¾c.); S. C., 23c (3c.), Tenn., 23c. (3¾c.); Va., 24c. (3½c.); W. Va. 23c (2¾c.).

1°, nitration, ret. dms., works.. gal. .28 - —
tanks, E. of Omaha, frt. alld gal. .23 - —
West Minnequa, Colo....gal. .23 - —
Toluene (see Toluol)
Toluidin base, distilled, kgs..lb 1.60 -

Tonga, 50% bark and vine, bbls. lb. .90 - .91
Tonka beans, Angostura, cks..lb. 1.70 - 1.80
Brazilian, Surinam, cs.....lb. .85 - .90
Totaquine, USP XII, 100-oz. lots cs. .32 - —
Triacetin, dms., works.....lb. .26 - —
Triamylamine, dms., c.l., works. lb. .98 - —
l.c.l. .....lb. 1.01 - —
Tributyl citrate, dms.....lb. .41 - .49
smaller pkgs.....lb. .52 - —
Phosphate, dms., l.c.l., frt. alld. E. of Rockies..lb. .72 - —
Tributylamine, dms., c.l., works. lb. .78 - —
l.c.l., works.....lb. .81 - —
Trichlorobenzene, dms., c.l., wks. lb. .11 - —
l.c.l., frt. alld.....lb. .13 - —
Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works.....lb. .17 - —
Trichloroethylene, dms., c.l., Zone 1, works, frt. alld..lb. .06 - —
Zone 2, frt. alld.....lb. .06½- —
Zone 3, frt. alld.....lb. .09 - —
Zone 4, ex whse.....lb. .09 - —

Trichloroethylene, l.c.l. prices ½c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Triresyl phosphate, coaltar base, dms., c.l., dlvd..lb. .33 - —
l.c.l., dlvd.....lb. .33½- —
tanks, dlvd.....lb. .32 - —
petroleum base, dms., c.l., dlvd..lb. .37 - —
l.c.l., same basis.....lb. .37½- —
tanks, same basis.....lb. .36 - —



P-354 BECKAMINE

assures better baked finishes in faster time

When you add P-354 Beckamine to your automobile or refrigerator undercoats and enamels, several things happen—*all good.* Baking time and temperatures are reduced . . . hardness is increased, as is resistance to heat, soap, water and fatty acids . . . and both color and color retention improve. And that's not all! Initial gloss, gloss retention and abrasion resistance rate "excellent", too, and use of this superior urea-formaldehyde resin gives you whites that are "really white." P-354 Beckamine produces fine results in combination with any alkyds, but it is especially effective with RCI Beckosols. For formulating suggestions write direct to the Sales Department at Detroit.

"Supplying—not competing with—the makers of better surface coatings."

REICHHOLD CHEMICALS, INC.

General Offices and Main Plant, Detroit 20, Michigan

Other Plants: Brooklyn, New York • Elizabeth, New Jersey • South San Francisco, California • Seattle, Washington • Tuscaloosa, Alabama
Liverpool, England • Paris, France • Sydney, Australia • Zurich, Switzerland • Milan, Italy • Rio de Janeiro, Brazil

SYNTHETIC RESINS • CHEMICAL COLORS • PHENOLIC PLASTICS • INDUSTRIAL CHEMICALS

Triethanolamine, dms., c.l., frt. alld. in E..lb. .19½- —
l.c.l., same basis.....lb. .20½- —
tanks, same basis.....lb. .18½- —
Triethyl phosphate, cns.....lb. .40 - —
Triethylamine, dms., c.l., works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%...lb. .36 - —
tanks, works, basis 100%....lb. .30 - —
Triethyleneglycol, dms., c.l., frt. alld. in E..lb. .18½- —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .17½- —
Trimethylamine, anhydrous, cyl., works, frt. alld. E. of Miss., 100% basis..lb. .35 - —
solution, dms., c.l., frt. alld. E. of Miss., 100% basis..lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. alld..lb. .26 - —
l.c.l., same basis.....lb. .27 - —
Tripoli, air-floated, bgs., c.l., works..ton.21.50 - —
double-grd., bgs., c.l., works.. ton.17.50 - —
once-grd., bgs., c.l.. works.ton.16.00 - —

Trisodium phosphate (see Soda phosphate tribasic).

Tuba root (see Cube root).

Tungsten metal, powd., 99.9+%, dms., works..lb. 2.35 Nom.
Oxide, kgs., same basis.....lb. 4.75 Nom.
Turmeric root, Alleppey, bls...lb. .24 - .25
Haitian, bls.....lb. .15½- .16
Jamaica, futures, bls.....lb. .15 - .15½
Madras, bgs.....lb. .15½ Nom.
Turpentine, gum (see Naval Stores, Protective Coatings market).
Turpentine, wood, d.d., dms., extra, l.c.l., works, South. gal. .79 - —
l.c.l., same basis.....gal. .80 - —
tanks, wks., South.....gal. .70 - —
steam-dist., l.c.l., dms., incl., East..gal. 1.06 - —
tanks, South .....gal. .85 - —
Sulphate, ret. dms., East..gal. .90 - 1.00

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium, oxide, black, bgs...lb. 2.55 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 46% N., bgs., c.l., works or ship. pts..ton.73.00 - —
l.c.l., ship. pts.....ton.75.50 -80.50
fertilizer comp., 42% N., bulk, c.l., works or Atlantic or Gulf ports..ton.57.40 - —
fixed ammonia content, usual Atlantic and Gulf ports, NH_3..ton.116.80 - —
imports, pure, cs.....lb. .12 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.50.00 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va., NH_3, ton.113.60 - —

C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.

Urunday, extract, 69% tannin, ex dock, U. S. ports..lb. No prices
Uva ursi leaves, bls.....lb. .15 - .19

V

Valerian root, Belgian, NF, bls. lb. .56 - .58
Indian, bls.....lb. .42 - .52
Valonia, beards, bgs., ex dock. ton.75.00 -95.00
Cups, bgs., ex dock.....ton.58.00 -65.00
Extract, powder, bgs., ex dock. lb. .11825- —
Vanadium pentoxide, CP, bgs., cns, works..lb. 7.60 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins..lb. 7.75 - 8.50
Mexican, cnts, tins.....lb. 9.50 -10.00
whole, tins .....lb.10.50 -11.00
Tahiti, tins .....lb. 4.00 - 4.25
Vanillin, ex eugenol, tins, 25 lbs. or more..lb. 4.50 - —
smaller lots, tins.....lb. 4.55 - 4.65
ex guaiacol, tins, 25 lbs. or more. lb. 3.00 - —
smaller lots, tins.....lb. 3.05 - 3.15
ex lignin, tins, 25 lbs. or more. lb. 3.00 - —
smaller lots, tins.....lb. 3.05 - —
Venice turpentine, actif., cns..lb. .34 - .35
Verdigris, bbls., bgs.....lb. .23 - .28
Vinyl acetate, cbys., works....lb. .25 - —
dms., c.l., works.....lb. .15½- —
l.c.l., works .....lb. .16½- —
tanks, works .....lb. .14 - —
Ether, bots., 75 c.c., less 20% and 20%..bot. 1.80 - —
35 c.c., same basis....bot. 1.05 - —
35 c.c., same basis....bot. .65 - —
Trichloride (see Trichloroethane).
Viosterol, bots., 100 billion USP units..mill. units. .04 - —
1 billion USP units.mill. units. .05 - —
100 million USP units..mill. units. .07 - —
Vinylpyridin, ret. dms., works.lb. 1.50 - —

Vitamin A (see Oils, codliver, fishliver)
A concentrate, dms., works.. mill. units. .40 - .45
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice Bran and Yeast).
B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver, and fishliver, calciferol, and Viosterol).
D_2 (see Calciferol).
E (see Alphatocopherol and oil, wheatgerm).
G (see Riboflavin).
P-P (see Acid, nicotinic, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo, root bark, bls.....lb. 2.00 Nom.
tree bark, bls.....lb. .45 - .50
Wattle bark, merchantable bags, f.a.s..ton.64.00 -65.00
fair average, bgs., f.a.s... ton.66.00 -67.00
extract, liquid, 35% tannin, bbls., works..lb. .06 - .06½
tanks, works.....lb. .05½- .05¾
solid, E. Afr., 61% tannin, in bond, ex dock..lb. .06¾- —
S. Afr., 62% tannin, ex dock, in bond..lb. .07 - —

Wattle extract prices based on $20 freight and $1.00 insurance per long ton.

Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs.....lb. No stocks
Bees, bleached, USP, white, bricks, cakes, cs..lb. .70 - .71
slabs, bgs.....lb. .69 - .72
crude, African, bgs.....lb. .59 - .60
Western hemisphere, bgs.lb. .62 - .64
refined, yellow, bricks, bgs.lb. .64 - .65
slabs, bgs.....lb. .63 - .64
Candelilla, crude, bgs.....lb. .76 - .77
refined, bgs. .....lb. .78 - .80

Powdered, candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, No. 3, bgs., ton lots..lb. 1.26 - 1.27
North Country, No. 2, bgs., ton lots..lb. 1.35 - 1.36
No. 3, bgs., ton lots.....lb. 1.26 - 1.28
refined, bgs., ton lots.....lb. 1.38 - 1.39
yellow, No. 1, bgs., ton lots, lb. 1.65 - 1.67
No. 2, bgs., ton lots.....lb. 1.63 - 1.65

Powdered carnauba prices, same differentials as powdered candelilla.

Ceresin, dom., 132°-136° m.p., bgs..lb. .16 - .16½
133°-140° m.p., bgs.....lb. .18 - .18½
158°-162° m.p., bgs.....lb. 2.4½- .31
Japan, bgs.....lb. .35 - .38
Microcrystalline, 170°-175° m.p., A.S.T.M., amber, ctns., 30 tons yearly contract, group 3, works..lb. .16 - —
smaller lots, same basis. lb. .16 - .17½
170°-175°, black, ctns., 30 tons, same basis..lb. .14½- —
smaller lots, same basis..lb. .14½- .15½
white, ctns., 30 tons, same basis..lb. .27 - —
smaller lots, same basis.. lb. .27 - .29
190°-195° m.p., A.S.T.M., amber, ctns., 30 tons, same basis..lb. .13 - —
smaller lots, same basis. lb. .13 - .19
190°-195° m.p., ASTM, black, ctns., 30 tons, same basis. lb. .16½- —
smaller ctns., same basis. lb. .16½- .17½
white, ctns., 30 tons, same basis..lb. .31 - —
smaller lots, same basis. lb. .31 - .33
Montan, crude, bgs.....lb. .32 - .38
Ouricury, crude, bgs., ton lots. lb. .61 - .62
refined, bgs., ton lots.....lb. .66 - .67
Osokerite, dom., 180-190 F., c.l. lb. .36 - —
182-184 F., bgs., c.l.....lb. .31 - —
182-188 F., bgs., c.l.....lb. .27 - —
Spermaceti, blocks, cs.....lb. .45 - .50
cakes, cs.....lb. .46 - .51
White lead (see Lead, white).
White, precipitate, powd., dms., 50 lbs. or more..lb. 2.27 - —
White pine bark, rossed, bls..lb. .21 - .25
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, works, St. Louis..ton.10.50 - —
smaller lots, works, St. Louis..ton.12.50 - —
floated, 325 mesh, 99½% bgs., c.l., ton.14.50 -27.50
200 mesh, 99½%, bgs., c.l. ton. No prices
90%, bgs., c.l.....ton. No prices
water-floated, extra, gilders, bgs., c.l..ton.14.50 -28.90
gilders, bgs., c.l.....ton. No prices
putty grade, bgs., c.l..ton.13.00 - —
surface treated, bgs., c.l., Ohio, works..ton.30.00 - —
Paris, white, bgs., c.l.....ton.25.00 -31.00
l.c.l.....ton.25.00 -30.00
precipitated, bgs., c.l.....ton.14.00 -15.00
l.c.l. .....ton.18.00 -20.00
Wild cherry bark, thick, bls..lb. .06 - .07
thin, natural, bgs.....lb. .15 - .20
rossed, green, bls.....lb. .24 - .26
Wild indigo root, bls.....lb. .38 - .40
Witch hazel leaves, bls.....lb. .28 - .30
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., N. Tonawanda, N. Y..ton. No prices
60 mesh, same basis.....ton. No prices
80 mesh, same basis.....ton. No prices
100 mesh, same basis.....ton. No prices

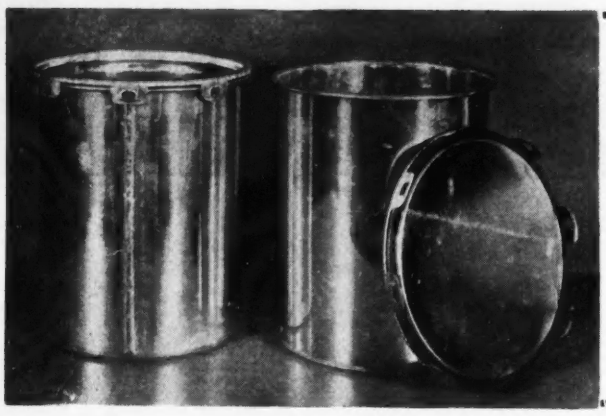
Woodflour, in bags, 25c. each extra, returnable.

Wormseed, American, bgs.....lb. .20 - .27
Levant, bgs.....lb. 4.25 - 4.50
Wormwood, bls.....lb. .50 - .60

X

Xanthorrhiza, bls.....lb. .23 - .30
Xylidin, mixed, dms.....lb. .33 - —
Xylene (see Xylol).
Xylol (xylene), indust., ret. dms., works..gal. .23 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —

CONTAINERS AVAILABLE



QUOTA FREE

NEW 1-GALLON, ALL METAL LUG STYLE CLOSURE

•

Prompt Shipment

CARLOAD QUANTITIES ONLY

If you are witnessing difficulty in procuring 1-gallon friction top cans, we may have the answer to your problem as we are able to supply containers in quantity for prompt delivery—more fully described and priced as follows:

1-gallon; NEW (not war surplus); 29 gauge; 6½" diameter x 7" height; 8 lug full-removable cover; rubber gasket in cover; tin plate body; hand soldered side seam; clear lacquered blackplate bottom and cover

.....$29.05 per C

Above price to apply in carload quantities of approximately 16,000 units, f. o. b. your siding. L. c. l. shipments are not available due to the absence of cartons or crates for packing.

These containers, because of their more expensive method of manufacture, are offered strictly as a temporary and substitute package. They are CPA quota-free and unrestricted as to usage.

A closing tool, identical but for diameter to that employed in the sealing of 5-gallon lug style containers is loaned on a memorandum basis.

Because of the tin plate shortage, these packages are currently being extensively employed by industry and are offered subject to prior sale. They are not recommended for thin liquids. May we repeat, they are available in carload quantities only.

We will be pleased to send a sample for your observation upon receipt of your request.

VULCAN TIN CAN CO.

BELLWOOD 3, ILLINOIS

Xylol (xylene), industrial, tanks, West Minnequa, Colo....gal. .23 - —

Prices on xylol from petroleum, tanks, delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Del.-Md.-D. C., 23c. (2½c.); Detroit, 23c. 1 8/10c.); La., 23c.; N. E., 23c. (2¼c); N. J., 23c.; N. Y., 23c.; N. C., 23c. (5c.); Pa., 23c. (3½c.); S. C., 23c. (6c.); Tenn., 23c. (3½c.); Va., 24c. (3½c.); W. Va., 23c. (2½c.); the Chicago price is 20c. f.o.b. terminal.

10°, ret. dms., works.....gal. .30 - —
tanks, E. of Omaha, frt. alld. gal. .25 - —
8°, ret. dms., works.....gal. .31 - —
tanks, E. of Omaha, frt. alld. gal. .32 - —
8°, ret. dms., works.....gal. .43 - —
tanks, E. of Omaha, frt. alld. gal. .37 - —

Y

Yara yara, cryst., bots., cns..lb. 1.62 - 1.75
Yeast, brewer's dry, 50 B units, dms..lb. .35 - —
90 B units, dms.....lb. .45 - —
200 B units, dms.....lb. .59 - —
800 B units, dms.....lb. .66 - —
Yellow, barium chromate, CP, bgs., l.c.l., divd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .32 - —

Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.

Benzidin, bbls., divd.....lb. 1.60 - —
Cadmium, lithopone, all shades, bbls., frt. alld. E. of Rockies..lb. .50 - .90

Los Angeles and San Francisco, ex whse. 1c. per lb. higher.

Chrome, CP, bbls., divd. N. Tenn. and N. C., E. of Miss. R., includ. Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts.. lb. .26 - —

Chrome, CP, bbls., divd. Ala., Fla., Ga., La. (Shreveport), 1½c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1½c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher divd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Dutch, pink, bbls.....lb. .09 - .11
Hansa, bbls., same basis as chrome..lb. 1.42 - —
primrose, bbls., same basis. lb. 1.90 - —
Bethlehem, Easton, Pa., lb. .04½- —
l.c.l., same basis.....lb. .05 - —
synthetic, bbls., c.l., works, lb. .07½- —
l.c.l., works.....lb. .07½- —
Mercury oxide, bbls., 1,000 lbs. lb. 2.22 - —
smaller lots .....lb. 2.25 - —
Ocher, American, golden, bbls., works..lb. .04½- .09¼
Iron oxide, nat., bbls., c.l., yellow, bgs., works.....lb. .03½- .05¼
French type, bgs., c.l.....lb. .05¼- —
l.c.l. .....lb. .04 - —
Persian orange (see O).
Zinc, bbls., same basis as chrome..lb. .17½- —
Navy spec. type bbls., contract..lb. .19 - —
Yellow dock root, bls.....lb. .85 - .90
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls.....lb. .32 - .35
Yohimbine hydrochloride, vls..oz. 3.25 - 4.00

Z

Zein, bgs., 1,000 lbs., works...lb. .25 - —
smaller lots, bgs.....lb. .30 - —
Zinc acetate, tech., bbls., divd.lb. .20 - —
USP, bbls.....lb. .26 - .27
kgs. .....lb. .27 - .29
Arsenite bgs., c.l., frt. alld. E. of Rockies..lb. No stocks
l.c.l., same basis.....lb. No stocks
Borate, bgs., c.l.....lb. .12 - —
Carbonate, tech., rubbermakers' grade, bbls., works..lb. .09¾- .10¼
USP, precip., powd., bbls..lb. .35 - —
dms. .....lb. .40 - —
kgs. .....lb. .37 - —
Chloride, tech., fused, dms., c.l., works..100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.65 - —
gran., bbls., c.l., works... 100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.40 - —
solution, 50%, dms., c.l., works. lb. .0365- —
l.c.l., works.....lb. .0425- —
tanks, works.....lb. .0300- —
USP, dms.....lb. .30 - .31
jars .....lb. .35 - .36
Chromate (see Yellow, zinc).
Cyanide, kgs., works.....lb. .34 - .35
Dust, bbls., c.l., divd.....lb. .1250- .1300
l.c.l. .....lb. .12¾- .13
Fluoride, bbls., works.....lb. .18 - .19
Hydrosulphite, dms., works..lb. .19 - —
Iodide, NF, jars.....lb. 4.65 - —

Zinc laurate, bbls.....lb. .32 - .38

Metal (quotations in Protective Coatings market).

Naphthenates, 8% Zn, liquid, dms..lb. .19¾- —
10% Zn. liquid, dms.....lb. .24 - —
14% Zn. solid, dms.....lb. .31¾- —
Oxide, pigment, dom., acicular, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .09½- —
l.c.l., works.....lb. .09¾- —
American process, com'l, lead-free, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .09½- —
l.c.l., works .....lb. .09¾- —
leaded, 5%, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .09½- —
l.c.l., works .....lb. .09¾- —
85% or more, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .11½- —
l.c.l., works .....lb. .11¾- —
50%, bgs., c.l., f.o.b. ship't point, frt. alld., lb. .12¾- —
l.c.l., works .....lb. .12¾- —
French process, com'l, lead-free, bgs., c.l., f.o.b. ship't point, frt. alld. lb. .11¾- —
l.c.l., works.....lb. .12 - —
green seal, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .11¼- —
l.c.l., works.....lb. .11½- —
white seal, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .11¾- —
l.c.l., works.....lb. .12 - —
red seal, bgs., c.l., f.o.b. ship't point, frt. alld., lb. .10¾- —
l.c.l., works.....lb. .11 - —

Zinc oxide, USP, ctns., c.l., f.o.b. ship't point, frt. alld..lb. .12¾- —

Zinc oxide Pac. Coast prices ½c. higher; bbls. prices ¼c. higher than bgs.

Resinate, fused, 1% Zn, lump, 9% Zn. powd., dms..lb. .19½- —
Silicofluorides, bbls.....lb. .15 - .16
Stearate, USP, ctns., 2,000 lbs. to c.l..lb. .54 - —
smaller lots.....lb. .55 - —
Sulphate, cryst., 22% Zn. bgs., c.l., works, frt. alld.... 100 lbs. 4.15 - —
l.c.l., same basis.100 lbs. 4.90 - —
flake, 36½% Zn., bgs., c.l., same basis..100 lbs. 4.80 - —
l.c.l., same basis....100 lbs. 5.55 - —
powd., 36% Zn., bgs., c.l., same basis..100 lbs. 6.75 - —
l.c.l., same basis.100 lbs. 7.50 - —

Zinc sulphate in bbls. 10c. higher.

Sulphide, pure, bgs., c.l., divd. lb. .10 - —
l.c.l., works.....lb. .10½- —
Barium pigment, works, bgs., c.l., divd..lb. .07 - —
l.c.l., works.....lb. .07¼- —
Calcium pigment, works, bgs., c.l., divd..lb. .07 - —
l.c.l., works.....lb. .07¼- —
Fluorescent pigment, works, frt. alld..lb. 1.00 - 2.00
Magnesium pigment, bgs., c.l., divd..lb. .07 - —
l.c.l., divd.....lb. .07¼- —
Zinc sulphide and pigment, Pac. coast prices ½c. higher; bbl. prices ¼c. higher than bgs.
Sulphocarbolate, NF, gran., bbls., dms..lb. .18 - .20
Sulphoxylate, formaldehyde, basic, dms., works., frt. alld..lb. .17 - —
Zinc sulphoxylate, formaldehyde, normal, dms., works, frt. alld..lb. .35 - —
Yellow (see Yellow, zinc).
Zinc-ammonia chloride, bbls., c.l., works..100 lbs. 7.15 - —
l.c.l., works.....100 lbs. 7.55 - —
Zinc-cadmium sulphide, fluorescent, cns., works, frt. alld..lb. 2.00 - 2.60
Zinc-iron oxide pigment, bgs., c.l., divd..lb. .07¾- —
l.c.l., divd. E. of Rockies. lb. .08¼- —
Pac. cst. .....lb. .08½- —
ex whse., Pac. cst...lb. .08¾- —
Zirconium acetate, solution, bbls., works..lb. .25½- —
Hydride, cns., works.....lb. 7.00 - 9.00
Nitrate, bgs., works.....lb. 3.00 - 4.00
Oxide, 99%, grd., bbls., c.l., works..lb. .32½- —
l.c.l. .....lb. .33¾- —
white, 99½%-99%, grd., bgs., works..lb. .30 - —
milled, electric, fused, 2,000-9,999 lbs., works.lb. .45 - —
500 lbs. and less, same basis..lb. .46½- .49
Oxychloride, cryst., bbls., 5 tons, works..lb. .29¼- —
Sulphate, basic, cake, bbls., c.l., works..lb. .16 - —
l.c.l., works.....lb. .18½- .20
smaller lots, works..lb. .30 - .31½

Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the April 7 issue of OPD.

Godfrey L. Cabot Honors Veteran Boston Employees

Two employees of Godfrey L. Cabot, Inc., were honored recently in recognition of their long periods of service with the company. The occasion was a dinner at the home of Godfrey L. Cabot, given for J. S. Kennedy, company comptroller, and Carl L. Gyberg, of the land department. Mr. Kennedy had just rounded out twenty-five years' association with Mr. Cabot, and Mr. Gyberg thirty-three.

Mr. Cabot invited all employees who had been with the company ten years or longer to the party. Twenty-seven of the twenty-nine veterans in Boston were present. Among them were R. G. Allen, vice-president; Ralph Bradley, vice-president; Owen J. Brown, Jr., general sales manager; Fred C. Fernald, head of the Cabot legal department and secretary of the company; Fred H. Amon, technical director; D. D. Cochrane, chief engineer; Dr. Walter R. Smith, chief research chemist; and B. A. Wilkes, of Cabot technical sales and service.

EXTRA YARDAGE WITH THE WIND!

Knowledge and skill alone do not guarantee a perfect golf shot or a perfect vitamin product. In golf, a favorable wind—in the pharmaceutical field, superior raw materials—can make a big difference.

Hoffmann-La Roche, for many years, has been producing superior vitamins "by the tons". 'ROCHE' standards for quality and pharmaceutical elegance assure filling your bulk vitamin needs with the best materials that can be made available.

Make a memo now to send your next order for thiamine, riboflavin, ascorbic acid, pyridoxine, or vitamin E (acetate) to Roche Park.

Vitamin Division

ROCHE

HOFFMANN-LA ROCHE, INC.
Roche Park, Nutley 10, New Jersey

Oil, Paint & Drug Reporter

Founded October 18, 1871, by William O. Allison
Directed 1900-1942, by Harry J. Schnell
Incorporating Drug, Paint and Oil Trade, The New York Drug Bulletin, The Weekly Drug News, New York Druggists' Price Current, The Soap Makers Journal, Oil and Paint Review, and International Petroleum Reporter.
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SCHNELL PUBLISHING COMPANY, INC.
WILLIAM S AUCHINCLOSS, President
59 John Street, New York 7, N. Y., U. S. A.
Telephone: REctor 2-9620; Cable Address: Reporter, New York

Volume 151 April 21, 1947 Number 16

Price Cuts and the Antitrust Laws

President Truman has joined the growing number of those —business leaders, economists, politicians, and varied commenters—who are advising and urging that prices be reduced. He has not joined the lesser number who are doing just that. He is not doing anything to get rid of that basic booster of prices—support prices and other subsidies for agricultural products. He has not offered a program for the reduction of prices of commodities in general, which can be followed by business without fear of prosecution under the antitrust laws.

Throughout the existence and application of the Federal statutes commonly known as the antitrust laws, there has been much conjecture as to the objective at which they were directed. Nobody ever has contended that those laws sought the protection or the advancement of the public welfare. In many respects, the public could be far better served if business were free from their restrictions on concerted action and the elimination of competitive waste. Whether the public would be better served can only be conjectured in the lack of knowledge of what alternative restraints were laid on business.

Everybody knows, of course, that the proclaimed purpose of the antitrust laws is the preservation of competition. Most commenters say "free competition" in that connection. A few say "fair competition." The language of the laws at least implies a regard for the sacredness of both freedom and fairness in competition, but does not provide a means of making those two incompatibles mix.

There is talk that the Department of Justice will not too sternly regard the getting together of members of an industry with a view of reducing the cost of their products to the public; although the department sees no necessity for any such preliminary or preparatory getting together. That necessity, in fact, is bigger by antitrust-law criterions than at first sight appears. The launching of a price war would do more toward driving competitors from the field than would any amount of conferring on price reductions, from which the department is fearful of such a result. The Department of Justice cannot wink at violations of the letter of the antitrust laws without entering upon that despicable condition of replacing government by law with government by men. The law is there. If it lays a stymie for the relieving of the public from excessive prices, it needs emendment.

Teamwork Is Not Collectivism

One of the greatest economic puzzles of today is the apparently general belief that, in respect of national economy, teamwork never is and cannot be anything other than collectivism; that a planned economy can be nothing other than fascistic—or communistic, depending on the semantics of the commentator—governmental regimentation.

It must be admitted that the experiments in planned economy have largely been totalitarian. But, the nationally planned economic programs of any large industry in the United States cannot so be termed. Why, then, should it not be possible for all industries to plan together within the structure of practical democracy? Surely such planning need not be governmentally determined and controlled in every aspect far beyond the often crippling application of the antitrust laws.

There can be no denying that the economic structure of the United States has got out of balance. That is true of its political and social elements, as well as of the commercial. Manufacturing has become topheavy, in comparison with agriculture, and both have come to outweigh distribution. The recourse to political economy for remedies has done nothing beyond pyramid subsidies, usually with a consequent aggravation of one or another unbalance.

The old remedies do not work, largely because they must be applied sectionally or syndically. The need is for national treatment. It is the economy of the United States that is in need of stabilization, not that of some section or another, nor that of some industry or another. Cotton may be king—or steel, or automobiles, or radio, or plastics—but that does not best make for democratic progress, in spite of the proudly cited records of the past. National economic progress must be nationally planned and promoted—by business teamwork, of course; for that is the democratic way.

Washington Talks

—Continued from page 5

ments totaled 594,000 tons—14,000 tons more than the average for 1936-39.

The rate of shipments will probably decline somewhat during 1947, as the rate of production decreases from a peak of about 75,000 tons monthly during August to October, last year. This high rate resulted from an abnormally large supply of coconuts and a market situation favoring the employment of labor for making copra. However, it isn't expected to decline below 50,000 tons a month and may rise in the second hal of the year to 65,000 tons. Total output for the year is expected to be near 750,000 long tons.

Fungus Boosts Pine-Gum Yield

The theory that a fungus which causes pitch canker in some varieties of pine may be used advantageously to stimulate the flow of gum in turpentine pines is advanced by Dr. George H. Hepting, of the Division of Forest Pathology of the Department of Agriculture. Turpentine workers usually collect the gum by cutting a streak across the trunk of the pinetree and then periodically chipping the streak to encourage a more or less continuous flow of gum. In recent years chemical stimulation to the surface has been developed as a means of prolonging the gum flow.

The fungus, a form of *Fusarium lateritium*, was discovered by Dr. Hepting on hard pines near Asheville, N. C., in the Spring of 1944. It also occurs in the turpentine belt of southern Georgia and northern Florida. Little is yet known about the length of time it has been in this area or how widespread it is. Hepting's discovery that the fungous disease stimulated the flow of gum on twigs of pine which ordinarily produce very little pitch suggested the possibility of using the fungus on the trunks of turpentine pines. In research covering two seasons near Asheville, he found that treatment of the wounds in the pinetree trunks with the fungus greatly prolonged the flow of gum and did not severely damage the trees.

Forest scientists are continuing the experiments to find whether it is practical to use this fungus in turpentining. At the Lake City, Fla., branch of the Southeastern Forest Experiment Station, the pathologists are working in cooperation with the Forest Service. Preliminary experiments have given results similar to those at Asheville. But there has not yet been time to find out how long the flow of gum will continue or whether the annual yield per tree will be consistently high enough to make fungous treatments profitable in the production of turpentine and resin.

Closed Shop Sentiment

Whether Congress prohibits the closed shop or not in the pending legislation to reform the practices of labor organizations, the unions are up against a rising wave of anti-closed shop sentiment in the state legislatures. Laws regulating or prohibiting the closed shop have been enacted in sixteen states, and similar legislative proposals are pending in twenty-three others.

At the start of the 1946 legislative year, nine states had laws regulating or prohibiting the closed shop:—Alabama, Arkansas, Colorado, Florida, Kansas, Louisiana, Maryland, Wisconsin and South Dakota. During the year two more States—Arizona and Nebraska—joined the group and South Dakota strengthened its statutory position by adopting a constitutional amendment outlawing the closed shop altogether. Thus far in 1947, five more states have enacted anti-closed shop laws:—Georgia, North Carolina, North Dakota, Tennessee and Virginia.

The manner in which the state legislatures have been attacking the closed shop varies considerably. In some instances a negative approach is followed in the sense that no sanctions are applied other than to deny recourse to the courts to persons seeking to enforce the terms of the closed shop provision. In other instances, however, the approach is more direct, with criminal penalties imposed on persons or organizations entering into closed shop agreements.

It will be interesting to observe what method of restricting the closed shop will find most favor among state legislatures yet to consider the problem; also, whether the laws enacted will stand the test of constitutionality and the extent to which they might affect interstate businesses.

Farm Wages Stay Up

One of the excuses farmers have been making for the high cost of food is that they have to pay such high wages to their help. If that be true, it does not look very encouraging for any decline in food prices in the near future.

Farm wage rates continued to set new seasonal records April 1, says the Bureau of Agricultural Economics, and on that date averaged 10 percent higher than a year ago in the country as a whole. This was 389 percent of the 1910-14 average, about 6 percentage points up from what it was on January 1.

All is not as gloomy as might be deduced from the cold figures, however. The bureau said that the rise in the wage rates during the first three months of the year was smaller than usual for the season, and while they are higher now than a year ago, they are not as high as they were at the seasonal peak last July.

Aside from the seasonal factor that is involved, it appears that another reason for the increase is the fact that farmers are making a strong play for dependable year-round workers. They are tired of putting up with floaters. Daily wage rates with board changed very little in the first quarter, and rates per day without board actually declined slightly.

OPD Forum

Outlet for Individual Opinion

(Anonymous communications will not be recognized, but a signer's name will be withheld at request.)

Lecithin Patents Open

The Editor,
OIL, PAINT AND DRUG REPORTER.
Sir:—

It seems to us that the article "Lecithin Patents Open to Petroleum Producers," on page 70 of your April 7 issue, may give a misleading impression.

The patents in question were already freely available to any interested party. Licenses were offered to all petroleum refiners on uniform terms and with no restrictions for many years before entry of the consent decree mentioned. The first work with lecithin in the petroleum industry was done by American Lecithin Company and patent No. 1,884,899, issued October 25, 1932, related to the use of lecithin in gasoline. The writer was personally instrumental in the negotiation of arrangements in 1940 and 1942 with the Texaco Development Corporation and with the du Pont company, whereby all of the pertinent patents might be conveniently licensed so that no one desiring to use lecithin in either gasoline or lubricating oil would encounter difficulty in so doing.

We will appreciate your publishing this letter in order that the record may be clear.

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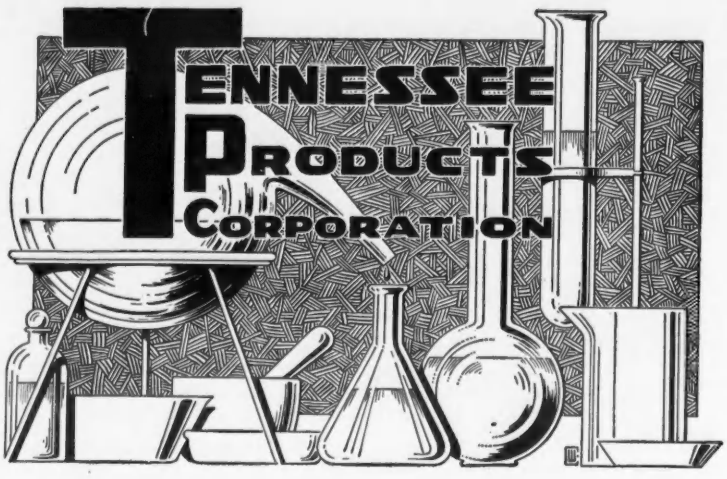

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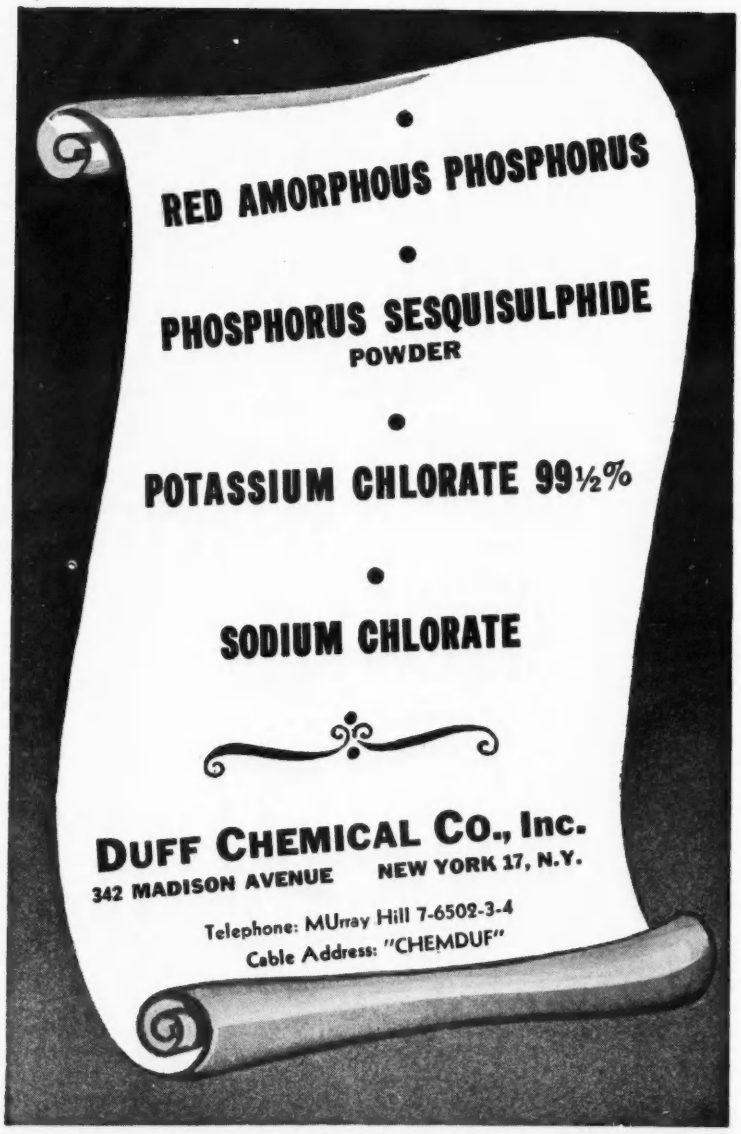

Heavy Chemicals

While demand for the heavy tonnage chemicals was sustained at an abnormally high level, in some other directions buying interest appeared to have subsided from an urgent to a more conservative basis. There was a distinct tendency to buy for immediate requirements. This was not the case with caustic soda, soda ash or other chemicals affiliated with the alkali group. Most of the heavy chemicals have backlog orders that will insure capacity production for many months. Reports were current of power interruptions in certain sections, Niagara being mentioned as one of the points where irregular power has prevented full output. Sales over the first quarter have shown as satisfactory average with some of the major producers of industrial chemicals recording an increase averaging 10 percent.

Conditions in caustic soda and soda ash have given no sign of nearby easement in supplies. Prospective plans have been made to increase production and according to trade reports a better distribution may be expected later in the year. Temporary withdrawal of buying for the match factories has eased the supply situation in chlorate of potash and prices have been reduced. Antimony sulphide has advanced in line with the recent upward revision in the metal. Tin oxide was priced higher and soda stannate has been made available at higher prices to buyers who have secured government certification. Soda tungstate was restricted to April shipments at $1.35 per pound. Cadmium metal continued exceedingly scarce without revealing any new price changes.

February output of the larger volume inorganic chemicals maintained the high level established in recent months, according to a report released recently by the Bureau of the Census. While some chemicals showed slight declines from January, this might be attributed to the short working month rather than a decrease in aciivity.

Paper production as a percentage of six-day capacity was 102.4 in the week ending April 12, according to the American Paper and Pulp Association. This compares with 106.1 the previous week and 103.6 percent a year ago.

Production figures given below unless otherwise designated are from the Bureau of the Census.

Acetic Anhydride — Chemical Division of the Tariff Commission places production for January at 49,157,280 pounds and the total output for 1946 at 521,979,039 pounds. This material was produced from ketone, acetylene, ethylene and from acetic acid by the vapor process.

Antimony Oxide — Allocations of this material for domestic use have been met promptly at former prices. Some export sales have been permitted but foreign shipments so far this year have not been on an elaborate scale.

Antimony Sulphide—This market is established at a higher selling level as noted in our previous report. Suppliers name 22c. per pound for carlots, works, and 24c. for smaller quanties, freight allowed in eastern territory.

Caicium Carbide—Commercial production in February dropped about 5,000 tons. Output registered 45,411 tons, compared with 50,675 tons in the preceding month and 40,316 tons in February last year.

Calcium Phosphate — Output of monobasic in February amounted to 5,794,000 pounds, against 6,731,000 pounds in January and 6,332,000 pounds in February, 1946. Production of dibasic was 6,076,000 pounds in February, compared with 9,817,000 pounds in the preceding month and 8,083,000 pounds in February, 1946.

Carbon Dioxide — Production of liquid and gas was placed at 14,019,000 pounds in February, against a revised total of 17,640,000 pounds in January, and 15,630,000 pounds in February last year. Output of solid, dry ice, amounted to 35,839,000 pounds in February, compared with 42,851,000 pounds in January and 38,634,000 pounds in February, 1946.

Carbon Disulphide—Chemical Division of Department of Commerce placed January production at 29,187,527 pounds and total production for 1946 at 302,543,024 pounds. Production of carbon tetrachloride in January was 15,765,452 pounds and 1946 total 145,765,551 pounds.

Chlorine—Market continued tight with demand active and container shortage having a tendency to impede shipments. February production was placed at 101,717 tons, against 110,088 tons in January and 84,741 tons in February, 1946. The totals represent production of gas, including quantities liquefied.

Copper—Production of refined copper in March is placed at 88.131 tons by the Copper Institute. This is the highest level recorded so far this year. In February the output was 77.591 tons. Stocks at the close were down to 69,727 tons which is the lowest for any month in the first quarter. In one producing source it was stated that unless effective action is taken quickly to relieve the current copper famine the copper industry will be jeopardized. Manufacturing concerns which need copper are laying off men because of the copper shortage. This is said to be the beginning of a trend which will accelerate tremendously in the near future. To all intents and purposes we have reached the end of the domestic stockpile.

Epsom Salt—Essential requirements of the consuming trade are being met. The market is not in free supply although shipments were reported obtainable on a fairly prompt basis.

Glauber's Salt—Maintained a tight supply position under a steady miscellaneous consuming demand. Production in February amounted to 16,433 tons, compared with 17,338 tons in the preceding month and 13,313 tons for February last year.

Potash, Carbonate—Continued in active demand with current production insufficient to supply requirements promptly. Buying conditions have shown no appreciable improvement so far this month.

Potash, Caustic—Buying interest has been kept at an unusually high level and has been augmented by the desire of consumers of caustic soda to substitute caustic potash. Shipments are behind schedule and the market's supply condition has remained definitely tight.

Potash, Chlorate—Relaxation in the buying movement for match production has appreciably loosened up the supply position of this market and brought about a lower price level. Powdered was quoted at 9c. per pound in carlots and crystals at 8½c. in carlots f.o.b. the works. Importations last week included 300 drums from Antwerp.

Potash Perchlorate—Production at present is heavily under contract mostly to the railroads for use in flares and other signal materials. Some of the largest producers are not inclined to consider additional orders calling for prompt shipment.

Salt Cake—Buying conditions were reported tight with demand keeping well ahead of the available supply. February production of crude salt cake amounted to 46,775 tons, compared with 48,937 tons in the preceding month and 40,505 tons for February last year.

Soda Ash—February recorded a loss

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Antimony sulphide, 4½c. per lb.
Soda stannate, 10½c. per lb.
Tin oxide, 10c. per lb.

Prices Reduced

Potash, chlorate, powdered, ¾c. per lb.
crystals, 2½c. per lb.

Comparative Price Indexes

General Chemicals

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
199.0	200.0	200.0	168.5

Acids

Last week.	Prev. week.	Last month.	Last year.
119.1	119.1	119.1	116.0

(For Current Prices see Page 9)

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of output in light soda ash. The total was 167,838 tons, compared with 194,825 tons in January. Production of dense soda ash was 129,155 tons in February against 129,815 tons in the preceding month. Natural soda ash showed an output of 18,612 tons in February compared with a revised total of 18,682 tons in January. The current market position revealed no easement from its tight supply condition. Industrial demand is considerably above present plant capacity and there is nothing in sight suggestive of any nearby leveling off.

Soda, Bicarbonate — Judging from official statistics, production is being maintained in this chemical. The total output in February was 15,329 tons, compared with 15,485 tons in January and 13,809 tons in February of last year.

Soda, Caustic—All grades recorded a lower output in February, possibly on account of the short month. The total amount of liquid produced by the lime-soda process was 60,056 tons, against a revised total of 64,761 tons in the preceding month and 61,646 tons for February, 1946. The amount of solid produced by this process was 18,395 tons, compared with 21,416 tons in January and 17,861 tons in February of last year. There were 96,370 tons of liquid produced by the electrolytic process in February, compared with 108,688 tons in January and 81,602 tons in February last year. Production of solid by this process was 16,695 tons in February against 17,960 tons in January and 14,713 tons in February of last year. Liquid production figures represent total output by the electrolytic process, including quantities evaporated to solid caustic soda.

Soda, Chlorate—This market is out of balance temporarily. Heavy orders placed for the dyestuff, textile and other industries have been augmented by the seasonal influx of weed-killing orders and the combined demand has exceeded current production. Buying conditions are tight, with prices firm but without quotable change.

Soda Nitrite — Market conditions have continued tight under a persistent buying movement for dyestuff and meat-packing requirements. Demand is somewhat ahead of current production, which has necessitated a relatively tight buying condition to exist.

Soda Phosphate—Stringent conditions prevailing in phosphorus and soda ash have kept production of the different grades of this chemical from increasing. Output of monobasic in February amounted to 1,278 tons, compared with 1,094 tons in January and 1,116 tons in February, 1946. Production of dibasic registered 6,034 tons in February, against 6,238 tons in the preceding month and 5,262 tons in February of last year.

Soda, Silicate — Production of all grades during February showed a total of 35,884 tons, compared with 39,991 tons in January and 32,494 tons for February last year.

Soda Stannate—This material has been made available to consumers who have government certifications. The market is higher than the former range. Prices extend from 43c. to 47½c. per pound, works, freight allowed, the price depending upon the seller and the quantity.

Soda Sulphate—Market conditions were tight with demand steady and prices firm. Production of refined anhydrous during February was 10,468 tons, against 12,176 tons in the preceding month and 9,320 tons in February last year.

Soda Tungstate — Firmly held at $1.35 per pound with shipments confined to April. This is about the only tungsten based chemical on which a definite quotation is available at present owing to the scarcity and advancing tendency of the metal.

Tin Oxide — Higher prices have been made effective for this chemical. Present production is limited, with suppliers naming 82c. per pound for barrels.

Acids

Acetic—Consuming demand for glacial acetic acid has been sufficiently heavy to keep the supply situation tight. According to trade reports, it has been difficult to maintain plant capacity on account of insufficient power. The Chemical Division of the United States Tariff Commission placed January production of synthetic acetic acid at 32,997,431 pounds and total production for 1946 at 284,826,831 pounds. The amount of recovered acid in January was 121,412,807 pounds, and the total recovered for 1946 at 1,191,233,817 pounds. Output of natural in January was 2,154,450 pounds and output in 1946 amounted to a revised total of 27,303,171 pounds.

Hydrofluoric—Production of anhydrous and technical in February amounted to 3,803,000 pounds, compared with 3,592,000 pounds in the preceding month, and 3,255,000 pounds in February, 1946. Stocks appear sufficient to meet current requirements, but shipments have been delayed in some instances by the container shortage.

Muriatic—Output was moderately lower in February probably on account of the short month. The total was 33,966 tons, against 35,144 tons in January and 26,791 tons in February, 1946.

Nitric Acid—Shortage of carboys has been the principal factor in interrupting the movement of this acid. February production registered 62,193 tons, compared with 64,138 tons in January and 31,123 tons in February, 1946.

Oxalic—Shortage of stocks has kept shipments confined to regular contract consumers but even here deliveries are considerably behind schedule. Demand has continued active and it will

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probably take several months to bring this market into balance, meanwhile, the supply condition is exceedingly tight.

Phosphoric—Total production in February amounted to 74,927 tons. Of this amount 41,210 tons were made from phosphorus and 33,717 tons from phosphate rock. The total for January was revised to 78,892 tons and that for February, 1946, registered 74,425 tons. The market has continued in tight supply with most essential requirements covered on a fairly prompt basis.

Sulphuric—Total production in February amounted to 835,163 tons which included 279,531 tons of chamber process and 555,632 tons of contact process acid. The amount of fortified spent acid was 43,513 tons. January total production was revised to 888,912 tons and output in February, 1946, was 665,129 tons. Demand has remained heavy with enough acid to meet current requirements if there were containers enough to move it promptly.

Bids Wanted

—Continued from page 4

nance Department (Rock Island Arsenal, Ill.) invitation 115, May 8.

Ether, U.S.P., 200,000 pounds, Army-Navy Medical Procurement Office (New York City) No. PBI-CWB, May 30.

Ethyl esteracetoacetic acid, 50 tons, Army-Navy Medical Procurement Office (New York City) No. PBI-CWB, May 30.

Ferric chloride, anhydrous, as required from July 1, District of Columbia Purchasing Agent (Washington 4, D.C.) schedule 9914-A, May 1; City of Cleveland, Ordnance No. 584-47, April 25.

Finishing oil, cotton warps, 1,070 metric tons, Army Quartermaster (New York City) invitation 177, April 25.

Isoamyl alcohol, 10,000 pounds, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.

Lacquer, 1,482 gallons, Army Air Material Command (Dayton, Ohio) invitation 576, April 29.

Lubricating oil, 174,900 gallons, Army Air Corps, Purchase Agency (Washington 25, D. C.) invitation 15, May 1.

Metal primer, 846 gallons, Army Air Material Command (Dayton, Ohio) invitation 573, April 29; 6,965 gallons, invitation 646, May 1.

Monochloracetic acid, 40,000 pounds, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.

Motor fuel, 23,000 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 207, April 25; 10,000 gallons, invitation 208, April 25; aviation, 28,159,760 gallons, Army Air Corps, Petroleum Purchase Agency (Washington 25, D. C.) invitation 14, May 12; jet propulsion, 3,000,000 gallons, Army Air Material Command (Dayton, Ohio) invitation 657, April 29.

Paint drier, 2,322 gallons, Army Air Material Command (Dayton, Ohio) invitation 574, April 29.

Paint, enamel, 50,000 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 203, May 1; 3,020 gallons, Post Office Department (Washington 25, D. C.) invitation 2228, April 23; 430 gallons, Marietta, TC Department (Marietta, Pa.) invitation 21, April 25.

Phenol, U.S.P., 50 tons, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.

Phosphorus oxychloride, 21,700 pounds, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.

Photographic chemicals, Treasury Department (Washington 25, D. C.) invitation 3-W-51445-R, April 28.

Pigments in oil, 1,300 pounds, Justice Department (Alderson, W. Va.) invitation 6-1949, April 24.

Pyridine, 1,000 gallons, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.

Salicylic acid, 50,000 pounds, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.

Salt, 500,000 pounds, Veterans Administration (Washington 25, D. C.) invitation 126-S, April 23.

Sodium Formaldehyde Sulfoxylate, 6,000 pounds, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.

Sodium hydrosulphite, 90,000 pounds, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.

Starch, 11,500 metric tons, Army Quartermaster (New York City) invitation 177, April 25.

Talc, 2,610 metric tons, Army Quartermaster (New York City) invitation 177, April 25.

Titanium white, 2,000 pounds, Army-Navy Medical Procurement Office (New York City) No. PB1-CWB, May 30.

Triethylamine, 495 gallons, Army Air Material Command (Dayton, Ohio) invitation 629, April 30.

Trisodium phosphate, 91,225 pounds, Post Office Department (Washington 25, D. C.) invitation 2227, April 23.

Zinc chloride, 500 metric tons, Army Quartermaster (New York City) invitation 177, April 25.

Foreign Sales Leads

—Continued from page 4

Perfumes, Natal, Brazil (N-13).

Pharmaceuticals, Belo Horizonte, Brazil (N-14); Sao Paulo, Brazil (N-15).

Plastic film, North Melbourne, Australia (N-1).

Plastics, Aracaju, Brazil (N-18); Belem, Brazil (N-21); Manaus, Brazil (N-22); Rio de Janeiro, Brazil (N-19).

Potassium bichromate, Sao Paulo, Brazil (N-17).

Potassium chlorate, Sao Paulo, Brazil (N-17).

Potato starch, Langenthal, Switzerland (N-3).

Resin, Sao Paulo, Brazil (N-20).

Shoe polish, Stia, Italy (N-9).

Soybean lecithin, Antwerp, Belgium (N-4).

Tanning extract, The Hague, Netherlands (N-10).

Varnish, Florence, Italy (N-6).

FTC to Resume Financial Data Collecting

Resuming its peacetime function of collecting, summarizing and analyzing the financial operating statements of American manufacturing corporations, the Federal Trade Commission is mailing report forms to 8,500 corporations requesting them to file brief profit and loss statements and balance sheets for the three-months ending within the first quarter of 1947.

The mailing list includes all corporations with assets of more than $5,000,000; three-fourths of all with assets ranging from $1,000,000 to $5,000,000 and a representative sample of smaller corporation selected by random drawing.

Brand Names Foundation Elects Rogers President

Edward S. Rogers, chairman of the board of Sterling Drug, Inc., New York, was elected 1947 chairman of Brand Names Foundation at the annual meeting of the organization April 18 at the Hotel Waldorf-Astoria. He succeeds A. O. Buckingham, vice-president of Cluett, Peabody & Co.

Paint Materials Costs

Continued from page 4

currently with prewar levels as follows:—

	Advance (percent)
Heavy chemicals	37.0
Acids	19.6
Coaltar chemicals	5.7
Pigments	36.5
Oils	213.0
Naval stores	77.0
Petroleum spirits	36.9

The median of materials' costs for three typical paints was reported to be up 63 percent since 1939; the weighted average for the same products is up 101 percent. The cost of pigments in a typical white outside paint is now 67.3 percent above that in 1939. The full linseed oil vehicle then used now costs 344.1 percent more. The oil-conservation vehicle's cost now is 251 percent higher than the 1939 cost of the full linseed oil vehicle. The cost of all the materials in the paint as made today with the conservation vehicle is 149.7 percent more than what they cost in 1939 with the original vehicle.

The cost of the vehicle ingredients in an inside flat paint is now 142 percent above its 1939 level. The cost of liquid components of a quick-drying alkyd coating is up 46.6 percent from that in 1939.

Surplus Materials Offered for Sale

The Philadelphia regional office of the War Assets Administration will receive sealed bids, to be opened May 2 at 2:00 p.m., under special offer PHO-71-483 which comprises, in addition to a variety of adhesive, cleaning, drawing, and fluxing compositions, the following materials:—

Calcium carbonate, 37,000 pounds, New Cumberland, Pa.

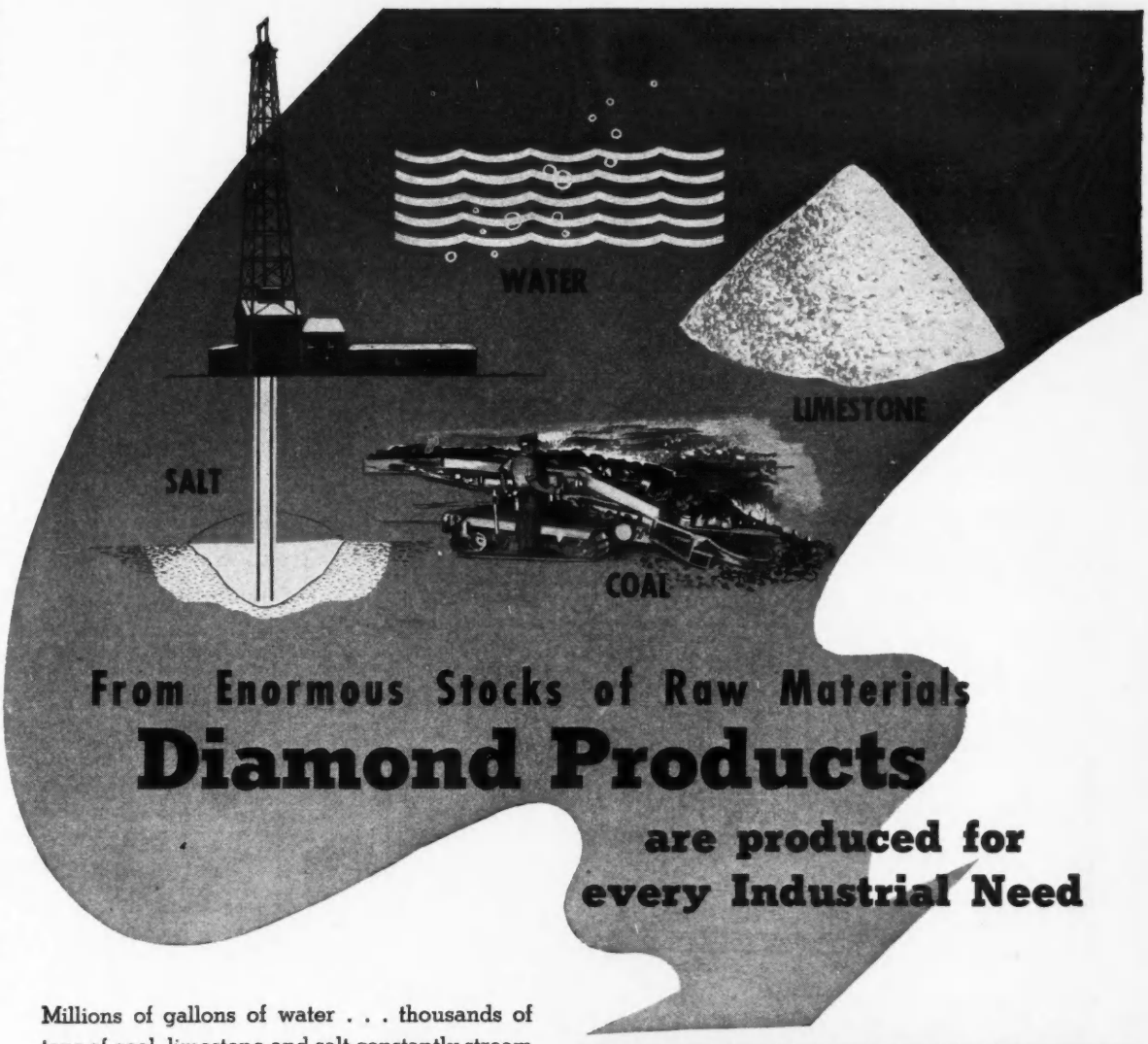
Calcium chloride boiler compound, 950 pounds, Cape May, N. J.

Mercuric oxide, red, 2,193 pounds, Philadelphia.

Phenyl sulphonate sodium salt, 280 gallons, Philadelphia.

The Commodity Credit Corporation will receive sealed bids up to 5:00 p.m. April 29 on nine lots of inedible dried whole eggs totaling about 78,500 pounds. The material is located in Bronx, N. Y.; Butler, Pa.; Chicago; Jersey City; Manawa, Wis.; Minneapolis; Moberly, Mo., and Salmon Falls, N. H.

The Department of Purchase of the City of New York has in its paintshop in Long Island City a leftover lot of materials enough to make 250 gallons of luminescent paint. It desires to sell the stuff via its salvage division in the Municipal building.



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A. C. S. Rejects Merger Proposal

—Continued from page 7

War II, are rapidly being revived on a larger and more inclusive basis, according to Dr. Bogert, who said the Union "is enlisting an ever-increasing number of chemists in many lands, steadily augmenting its usefulness, and advancing its influence and prestige."

George W. Merck, president of Merck & Co., Rahway, N. J., declared that super-scientists, skilled in more than one scientific field, as well as thousands of other competent scientists, are urgently needed.

These super-scientists might be likened to football's "triple threat men," he said, qualified to serve not only as group leaders but men who are virtually teams within themselves. The need for such advanced scientists is found in the fact that many scientific problems are so complex that a combination of skills is needed. To help young scientists who have shown marked ability in research in chemical or biological sciences, the Merck company has established fellowships administered by the National Research Council through a committee of eminent scientists.

Mr. Merck stressed the necessity of continued basic research. In nuclear physics, he said, those who are applying the basic knowledge report they have come to the point where they can make no further practical advances until further basic research is carried out. A similar situation applies to the medicinal chemical industry. He quoted others to the effect that little advance has been made in recent years in basic concepts in organic chemistry.

Cooperation of education, government, and industry in advancing basic research is essential, said Mr. Merck. He commented that scientists generally favor the National Science Foundation Bill in its present form, in that it promises support of research in a way which adequately guards intellectual freedom and sets limits and controls for Government.

Industry should create more top positions in research so that men with exceptional research ability can devote their careers to that field without detriment to their prestige or their prospects for financial advancecent, Dr. H. Wade Rinehart of E. I. du Pont de Nemours & Company, Wilmington, Del., declared.

"If the only promotion a research man can look forward to comes from earning managerial or administrative responsibility," he said, then the most aggressive and talented research men in industry, and in the universities as well, will be tempted out of the kind of work for which they trained themselves and in which they may make their most important contributions. The obvious cure is to insure to the best-qualified research men that life-careers in research work will be as attractive as in administrative work."

The professional employee should never think of himself as in a class apart from his employer, because in all probability he will be an employer himself someday, J. J. Healy jr., assistant general manager of the Monsanto Chemical Company's Merrimac division, declared at a meeting of the society's division of chemical education.

Mr. Healy described as "deplorable" the spirit of struggle between employer and employee which has existed for the past fifteen years, and asserted that if the employee be treated with dignity and the employer with respect the problem can be minimized. Research men are not problem children, he said, and must adjust themselves to the limitations of a company research budget just as they adjust the personal financial problems of maintaining a family.

W. J. Peterson, H. A. Stewart, R. E. Comstock, E. H. Hostetler and F. H. Smith, of the school of agriculture and forestry at the University of North Carolina, reported that because of the great strides made in the development of accurate methods for the determination of the content of vitamins, amino acids, minerals and other nutrients in food by chemical means, there has been an unfortunate trend away from the use of animal experimentation in the study of nutritional problems.

Increased commercial yields of ammonia from the coking of coal may be possible by use of new catalysts, it was reported in a paper by Professor C. R. Kinney, J. W. Eckerd, Pauline Rexford, and H. B. Charmbury of the Pennsylvania State College school of mineral industries.

The coking of coal produces large tonnages of ammonia, but only about one-fifth of the nitrogen in the coal is recovered in this form, the report said, declaring that most of the re-

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maining four-fifths is left in the coke and is lost. To prevent this, it was suggested, catalysts might be found to aid the recovery of the nitrogen as ammonia.

A paper presented by Osborne C. Bacon and J. Edward Smith, of the technical laboratory of the organic chemicals department of du Pont, revealed that research has shown that the effectiveness of surface active agents in detergent action is related quantitatively to the amount of work required to remove a fixed amount of a standard soil from a cotton fabric.

The factors of detergent concentration, relative mechanical force of the washing machine, and the time of washing are inversely proportional to each other at the same degree of soil removal. the paper declared.

Stream Pollution

Establishment of Federal control over stream pollution was opposed by Dr. Abel Wolman of Johns Hopkins University, who said that the states possess ample police power in this field and that assignment of concurrent authority to the national government might only make existing confusion worse.

"The blanketing of the country by uniform law or by uniform administrative decision cannot lead to anything other than a wasteful abuse of a valuable natural resource in our surface waters," Dr. Wolman warned. Jurisdictional litigation between Federal and state governments would be one of the early results of competitive regulation, he said.

Dr. Thomas Parran, surgeon general of the Public Health Service, said gross pollution of rivers and streams on which 50,000,000 Americans rely for drinking water constitutes a menace to national health and welfare.

Urging nationwide cooperative action by Federal and state governments and industry to halt dangerous deterioration of the country's natural water resources, Dr. Parran said that, in addition to its serious effect on health, pollution destroys necessary recreational facilities, lowers living standards in areas near unsightly and insanitary waters, and increases manufacturing costs by millions of dollars a year.

Recently devised chemical treatments for the recovery of waste proteins and fats from water used in the meat packing industry may make their recovery economically feasible, according to a paper by M. D. Sanders of Swift & Co., Chicago.

Removal of proteins and fats from the water to prevent stream pollution has long been economically accomplished in conjunction with purification of municipal sewage, he explained, but chemical recovery of these solids directly from the meat packing waste water has received little attention. Recent investigations in this field have led to the development of a new treatment for recovery, he added.

Heat Measurement

The search for better petroleum fuels is being facilitated by a new and highly sensitive apparatus for measuring the heat required to vaporize liquids, according to a paper by Dr. Defoe C. Ginnings and the late Dr. Nathan S. Osborne of the National Bureau of Standards, Washington, D. C.

The new apparatus is capable of an accuracy of about 2/100 to 3/100 of one percent under ideal conditions, it was reported, and even with small samples of doubtful purity the measurements have been accurate to 1/10 of one percent.

Since some of the pure hydrocarbons are available only in relatively small amounts, the apparatus is designed to test samples of about ⅛ pint, but vaporization experiments have been successfully carried out with as little as 1/50 pint of fuel, the report continued, asserting that this was made possible by an elaborate system of copper conductors which spread heat from an electric heater evenly to all parts of the sample being tested.

More economical production of a great number of important products derived from petroleum may result from use of a catalyst borrowed from the sulphuric acid industry, it was reported in a paper presented by Professor V. I. Komarewsky, L. B. Bos, and J. R. Coley of the Illinois Institute of Technology.

The catalyst, vanadium pentoxide, has been found to hasten the combination of hydrogen with many petroleum compounds and is said to be effective even at low temperatures and resistant to corrosion by sulphur, it was stated.

Spectacular expansion of the chemical industry through the exploitation of organic compounds of silicon was predicted by Dr. Charles A. Reed of the General Electric Company, Schenectady, N. Y., who said that recent development of a wide variety of tough, long-lasting silicon materials, including paints, plastics, oils, and synthetic rubber, is opening a virtually unlimited field for scientific and industrial advance.

Outstanding among the organic silicon products are the silicones, which have been made into plastics, rubber, oils and vehicles for paints and enamels, according to Dr. Reed, who asserted that all of these are remarkable for their resistance to extremely high and low temperatures and chemical attack.

A thin lightweight paint for flying boat hulls which will discourage fouling by marine organisms during long anchorage periods has been developed at the Naval Research Laboratory, Washington, D. C., the society learned.

Calomel and copper resinate dispersed in a non-oxidizing matrix which has the normal working characteristics of a good enamel were found to perform successfully in service for periods up to six months, it was disclosed. The research was reported by Allen L. Alexander, Peter King and Jack E. Cowling of the laboratory.

New Plastic Glue

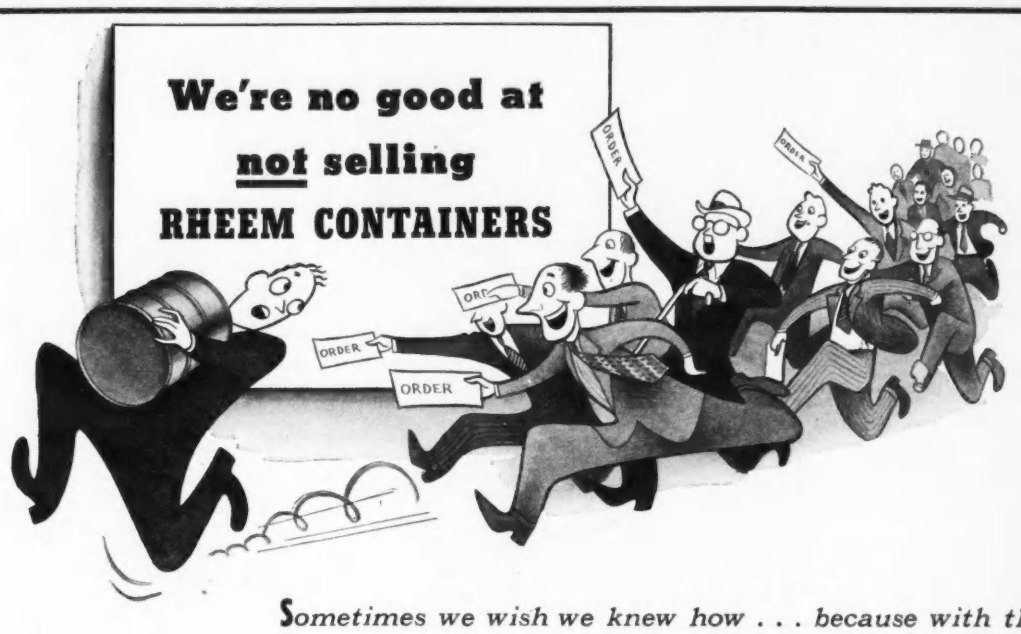
A plastic glue, strong enough to support a locomotive and with greater resistance to water, ice, heat, and salt spray than ever before achieved, was described by two chemists who have developed a new technique for producing the glue.

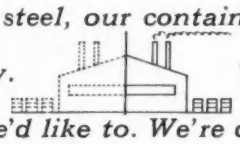
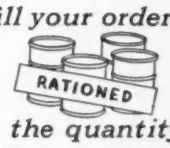
In a paper presented before the paint, varnish, and plastics division, Fritz J. Nagel and Elizabeth M. Ackermann of the chemical department of the Westinghouse Research Laboratories, East Pittsburgh, Pa., announced that they had devised a new method for making the glue in a form that is 10 to 15 percent stronger than similar adhesives. The glue is a member of the family of resorcinol resins, first cousin to the familiar Bakelite plastics.

A new series of chemicals which may make electroplating a safer commercial process were described in detail by scientists of the Standard Oil Company (Indiana). A compound traditionally used in such baths is hydrocyanic acid, which is extremely poisonous, it was said, and perchloric acid, which has been tried in special electroplating problems, is explosive.

The new electroplating chemicals which are now becoming available are neither poisonous nor explosive, according to a paper presented by Wayne Proell of the company's Whiting laboratory. They are derivatives of new alkanesulfonic acids of low molecular weight. Never before available except as laboratory curiosities, the acids are currently available in exploratory quantities, and commercial production is contemplated for the near future.

The paper, entitled "Properties and Uses of Alkanesulfonic Acids," pointed out the possibilities of the following acids: — methanesulfonic, ethanesulfonic, propanesulfonic, and mixtures of these three. The report, prepared in conjunction with B. H. Shoemaker and C. E. Adams, also of the Indiana Standard laboratories, said that these compounds can be made by a new catalytic process from sulphur compounds obtained as a byproduct in the manufacture of gasoline. The byproduct oil is oxidized to make the finished acids.



Sometimes we wish we knew how . . . because with the shortage of steel, our container plants are able to turn out only half of their full capacity.  *This makes it impossible for us to fill your orders as fast as we'd like to. We're doing our best, though, to stretch* 

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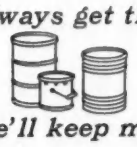
But whether you get 200 or 200,000, with Rheem you'll always get the quality you need. For Rheem steel containers are "tailor made"  *to fit your product's specifications. As long as there's any steel, we'll keep making them that way.*

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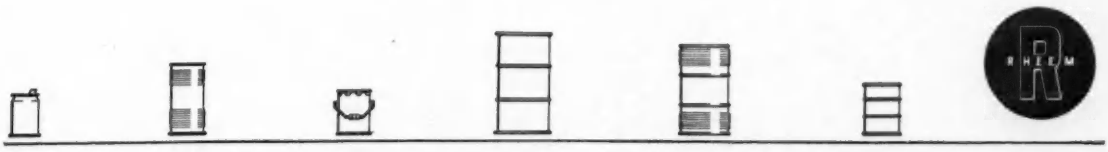

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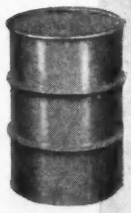

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Market Research Group Against Merger

—Continued from page 5

stick whereby we can measure and establish certain standards of performance within the sales organization, as well as in the manufacturing plant? Here is one of industry's prime responsibilities.

"Particular phases of marketing have just been barely scratched upon the surfaces. Today we are pioneering market research science. Sales engineering in the field of distribution is the goal to strive for, because it will soon open up an entirely new field in the realm of either market research, market engineering or industrial engineering, embracing all the elements of cost, return, cause and effect and all the conditions brought about by the association of men engaged in selling."

Distribution Costs

A prime responsibility of industry is to make the most of every opportunity to cut distribution costs as a further step to lower prices, Luther D. Reed, director of the trade analysis division of E. I. du Pont de Nemours & Co., told the meeting.

"Better tools and more efficient sales performance will be needed if we are to be able to meet competition and move materials to the public at constantly lower prices," said Mr. Reed. "The job is more than one of sales research; it is actually a project requiring engineering. Introduction of the sciences of process and management engineering revolutionized standards on the production side of industry.

"We have just passed through a number of years which brought about very unfortunate circumstances in which I fear industry has lost ability to sell. This is not overlooked by progressive concerns of the country today. It is receiving a lot of attention, but I fear many are not looking at this condition from a sufficiently long-range viewpoint.

"There is an engineering job to be done which must establish the same type of scientific management within the art of selling which we today placidly accept within the sphere of production."

Rayon Market Research

Elwood F. Altmaier, manager of the planning section of the rayon division of du Pont declared that the organization of the planning section is comprised of trade analysis, manufacturing analysis, production control and investment.

"In the rayon business," he said, "the degree to which we use market research is affected directly by the problem involved. If it is a question of expansion of the business, the relation of the expansion to the size of the market may determine the degree of exactness required of the market analysis."

Mr. Altmaier stated that when a specific product is involved, serving a specific textile use, more closely measured market research is involved. It may represent a product which is suitable to a particular machine, for a particular fabric, or a particular use, or a combination of such, he said, and in such case market research exactness is a necessity.

Five Easy Lessons

Frank W. Mansfield, director of sales research for Sylvania Electric Products, Inc., New York, declared that "five easy lessons take you right to the core" of market research. According to him, they are as follows:—find out what it is you really want to know; ask the one who knows more about it than you; ask your questions in such a way that you will get the right, not the wrong, answers; interpret the data correctly, and use the data.

The speaker said that Sylvania uses sales research data to prognosticate sales; analyze the market; protect the product; study the customer; promote good will and improve public relations; study its own sales force; analyze its outlets, and study the activities of its competitors.

Selling Process

H. O. Ladd, of du Pont's market research division, said that a prominent market research can be most useful. These six directions had been indicated by a poll of leading sales executives as of immediate and major interest to them. They were:—measuring their markets both in total and in their sales areas; developing and introducing new products; making distribution less costly and more effective; recruiting and training salesmen; compensating salesmen, and coordinating sales and advertising.

To these, Mr. Ladd said, I would like to add a seventh:—controlling the quality of the selling process.

Quality Control

"The words 'quality control' have a special meaning for the chemical industry today. Many years ago, what is now spoken of generally as quality control of the *manufacturing* process was called 'inspection' or 'testing,' and this work was essentially simple in character. Since then, and particularly in recent years, this inspection and testing has come to be a highly complex and scientific development, in many cases requiring the most precise methods, elaborate instrumentation and specialized training.

"In view of all this, what I have presumed to call quality control of the *selling* process is comparatively inexact, and is at a stage which might more truly be called 'inspection' or 'testing.'"

Quality of Selling

Mr. Ladd interpreted "quality of selling" as meaning the character or the caliber of the salesmen's work with the individual account—the creative aspects which result ultimately in the customer's order. He said that this is in contrast to quantitative aspects represented by such statistical indicators as frequency of contact, the distribution of calling time as between important customers and others, and the volumes sold.

"First, as market research men we are concerned with all phases of marketing problems. The quality of selling is a marketing problem. A number in this group, I understand are specialists in product development. It is their job to bring products up to the point of commercial development, in some cases to actually sell and service initial orders. It is to their interest that products *once sold, stay sold.* No development is a success otherwise. Unlike the surgeon, the development man can not count an operation successful if the patient dies.

"The second reason why quality of the selling process is a matter of concern to research men is because the question is one which is amenable to research to a very considerable degree.

"Nearly all quality control work in the chemical industry is based on the measurement of some sample or reading against a normal or standard. The concept or quality control of the selling process is based on the same principle.

"Admittedly the problem is much different because we are dealing with human rather than material behavior. We do not have to be psychologists to know that measurements of human behavior can become extremely involved, and that any practical workable standards are likely to have to be fairly general.

Trade Reports

"What then may we consider to be useful standards in measuring the quality of selling effort, and how may we apply research methods? The first requisite is a system of trade reporting by which the salesman provides certain essential facts:

(1) You must know whom he saw on his calls, their titles and their influence. (2) You must know what ideas, suggestions and evidence he presented and what reactions he developed. (3) You must know what services he performed or provided for. (4) You must know his plans for his next call.

"With these few essentials you can determine a great many things as to the quality of work being performed."

Annual Meeting June 5

Nominating committee was named to prepare a slate of officers for presentation to the annual meeting to be held in the Biltmore hotel, New York, June 5. Members of the committee are:—Chairman, W. M. Dennis, of the American Cyanamid Company; C. W. Berl, of the Hercules Powder Company; Russell Jones, of the Barrett division of Allied & Chemical Dye Corporation; Harry Outcault, of the St. Joseph Lead Company, and Lawrence Flett, of the National Aniline Division of Allied Chemical & Dye Corporation.

Obituaries

J.H. Gooding jr.

J. Hunter Gooding, jr., sales manager of the Semesan division of the Grasselli Chemical department of E. I. du Pont de Nemours & Co., Wilmington, Del., died April 14 after an illness of more than a year. He was fifty-five years old.

Mr. Gooding started with du Pont in 1910 and in 1928 was a technical correspondent in the New York office of the Bayer-Semesan Company, then a du Pont subsidiary. He was named sales manager in 1936, a position he held until his death.

E. Arthur Ball, vice-president of the Ball Brothers Manufacturing Company, Muncie, Ind., was found dead of a heart attack in his automobile at the airport of Millville, N. J., April 17. Mr. Ball, son of the late Frank C. Ball, inventor of the Mason jar, was fifty-two years old.

Edwin F. Burns, chief engineer of the International Paper Company's fine papers division, New York, died at his home in Larchmont, N. Y., April 15. He was forty-nine years old.

Eugene M. Fleck, president of the Vitro Manufacturing Company, producer of chemicals, colors and enamels, Pittsburgh, died recently in that city. He was fifty-three years old.

Fred Emerson Foster, president of the Richard Young Company, tanners, New York, died on April 16. He was sixty-three years old.

Thomas L. Luzier, manufacturer of cosmetics in Kansas City, Mo., died in that city April 15. He was seventy-four years old.

Arthur P. Stitzel, secretary-treasurer of Stitzel-Weller Distillery, Louisville, Ky., died in that city April 13. He was seventy-two years old.

Dr. Herbert F. Whalen, group leader of lacquer research at the Monsanto Chemical Company's Merrimac division plant, Everett, Mass., died recently while working in the plant. Dr. Whalen had been associated with the research laboratory of the plant since 1924.

Chemical Engineers To Meet May 11-14

American Institute of Chemical Engineers will hold a regional meeting at the Coronado hotel, St. Louis, from May 11 to May 14, inclusive. In addition to discussion of numerous technical papers, the gathering will feature trips to various industrial plants and laboratories in the vicinity of St. Louis.

Export Controls

—Continued from page 3

chona is unlike that of any other product. In the first place, the United States is deplorably short of supplies of quinine, for which there is a substitute—atabrin—but, more important, of quinidine, for which there is no substitute. The CPA feels that it is absolutely necessary to continue the public purchase program in order to protect our supplies of this latter material.

The decision, however, rests with the Bureau of the Budget and what it recommends to Congress will be the administration's viewpoint. What Congress does in the matter is something else again, although it is felt that it would probably go along with whatever the budget bureau recommends on this program.

Trade Briefs

B. F. Goodrich Company tire and tube manufacturing plant at Oaks, Pa., observed the tenth anniversary of continuous operations in April by producing the 16,000,000th tire there.

American Cyanamid Company's ion exchange products department has developed a new water demineralizer, known as 'Model U-60,' designed to transform ordinary tap water into the chemical equvalent of distilled water, at a fraction of the cost of distilled water.

Westvaco Chlorine Products Corporation, New York, has published "Technical Bulletin No. 205—Aluminum Bromide (Anhydrous)." Copies may be obtained without charge from the company's technical service division, 405 Lexington avenue, New York 17.

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Hexamethylenetetramine Wartime End-Uses Told

Total allocation of hexamethylenetetramine during the period July 1, 1944, to June 30, 1945, amounted to 12,947,000 pounds, according to chemical allocation records of the War Production Board. Of this, 3,094,000 pounds were exported; 1,304,000 pounds were for direct military use; 7,558,000 pounds went into the manufacture of resins, plastics and adhesives, and 991,000 pounds were for miscellaneous uses.

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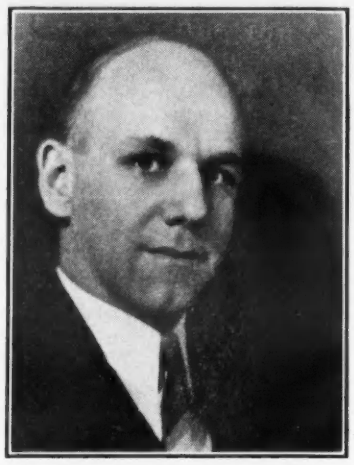

Cyril S. Kimball, of Foster D. Snell Inc., New York, has been named chairman-elect of the American section of the Society of the Chemical Industry.

Railroad Rates

—*Continued from page 5*

amount of claim payments, the record of the industries is believed to be far below the average, and said that shipper interests have repeatedly requested the carriers to point out to them any unusual experiences which have occurred.

Mr. Griffith brought up the complexities and practical difficulties that would beset a manufacturer attempting to place on each bill of lading the actual, declared or estimated value of a shipment composed of a number of different products, and quoted from an Interstate Commerce Commission docket which states "Shippers should not be burdened with the statement of values on usual articles of commerce and likewise should not be so burdened with respect to more valuable articles unless there is compelling reason therefor."

Reviewing the history of present rates, Mr. Griffith took note of the fact that the basis of less carload rates was agreed upon in 1933 after the carriers had requested the industry to make a survey and report as to the volume of traffic moving by highways and what rate basis would return at least a portion of this traffic to the railroads.

Declaring that this basis and the carload basis established in 1940 are considered by the industries to be reasonable maximum basis equally of benefit to carriers and shippers alike, he averred that "there is no valid reason to disturb these adjustments, especially when consideration is given to the recent general increases in rates awarded to the carriers."

Continuing in this vein, Mr. Griffith said:—"Unlike prices of the products of most other industries, including the transportation industry, the prices of our products, with few insignificant exceptions from the viewpoint of tonnage, have either remained constant for many years or have been reduced. While prices generally have remained constant, the sales volume of the industry has increased by leaps and bounds, reaching an all-time high in 1946—(and) the volume of tonnage offered by our industry to the rail carriers increased substantially."

Rail Rates Advanced

"Notwithstanding this condition, by comparison, the rail rates have continued to increase from time to time since 1933. The scales of class rates from New York to Chicago in effect May 15, 1933, February 4, 1940, and January 1, 1947, indicate an increase of 37.7 percent for less carload 1947 over 1933, and 25.4 percent, carload, 1947 over 1940."

In concluding his remarks, Mr. Griffith requested that the joint conference inform the industry of the conditions that are causing the carriers trouble, and recommended that the joint conference, or the appropriate associations making up the joint conference, appoint a special committee to present these troubles to the industry, together with recommendations for solution of the problems.

Present at the conference were more than seventy-five representatives of railroads operating in Official Classification territory, which consists of that section of the country east of the Mississippi and north of the Ohio and Potomac Rivers, plus delegations from southern and western railroads.

Trade associations represented by Mr. Griffith in his appeal to the conference included the American Pharmaceutical Manufacturers Association, the Drug and Toilet Preparation Traffic Conference, the Essential Oil Association, the Manufacturing Chemists Association, the Proprietary Association of America, and the Toilet Goods Association. From the standpoint of sales volume or tonnage, or both, they are said to represent more than 90 percent of the industries.

American Anode Plant Starts Output April 23

The new plant of American Anode, Inc., in East Los Angeles, will begin manufacturing operations on April 23.

The unit, started in October, 1946, and the first of its kind west of the Mississippi River, will have an annual capacity of 4,000,000 pounds of synthetic and crude rubber latices in raw and compounded forms. R. A. Lees, formerly with American Anode in Akron, is plant manager.

John Andresen Incorporated

John Andresen & Co., Inc., has been incorporated under the laws of the State of New York and has succeeded to all of the business of the firm of J. C. Andresen, which has been dissolved. Offices will be maintained at 8 East 36th street, New York, and 130 North Wells street, Chicago, Ill.

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Textile and Leather Chemicals

Activity in the textile and leather chemicals market continued confined to starches, bichromates, quebracho extract, wattle bark and extract and tara powder last week. Heavy export demand for starches featured sizing materials, and appreciably reduced stocks available for domestic users. This was reported especially the case in corn starch. Large quantities of which were booked for shipment abroad. Output of potato starch was sold up and, with the season practically at an end, the market was firmer and was advanced fractionally. New crop tapioca flour was offered more freely at slightly lower levels, but consumers showed little interest in shipments or for stocks on the spot. Further strength developed in albumen egg and yolk as a result of the advance in eggs, which increased production costs and boosted the prices of the former materials 5 cents per pound.

Consuming inquiry for tanning materials was dull, except for quebracho and wattle extracts and wattle bark. Offerings of quebracho extract were light and the market firm. Tanners were in the market for nearby replacements, but business was curtailed by the lack of sizable offers for shipment. A fair inquiry was noted for mangrove bark, while there was little demand for reported divi divi, myrobalans, and valonia. Consumers were in the market for tara powder. Offers for shipment continued scarce and were held at prices well above the $200 mark.

Chemicals

Bichromates — Production of soda bichromate and chromate totaled 5,954 short tons in February, compared with 6,979 tons in January and 7,134 tons during February last year. Steady consuming demand continued to take the output against current contracts. Market was firm at former levels.

Prussiates—Sizable quantities were in demand against former contracts, while new business was limited to immediate requirements. Prices were unchanged and well held.

Soda, Acetate — Available stocks were reported in limited supply. Demand continued active. Prices were firm.

Soda, Hydrosulphite—Activity was restricted to the call for stocks on previous orders. Prices were well maintained at former levels.

Sizing Materials

Albumen, Blood—Inquiry was moderate and mainly for actual requirements. Deliveries on former contracts were reported in good request.

Albumen, Egg—This market was stronger, and reflected the increased cost of production. Eggs were higher and makers in the West advanced quotations at least 5c. per pound. Trading was limited owing to high prevailing quotations. Granular was advanced to $1.95 to $2.05 per pound, depending upon quantity and seller for spot delivery. Sales were reported at this level. Stocks of technical were light and good quality ranged from $1.15 to $1.25 per pound, according to quantity, with some sellers asking up to $1.40.

China's once lucrative export trade in egg products may start moving again, according to the Department of Agriculture. A recent draft agreement would have the Central Trust finance purchasing, packing and freezing of eggs for export, mainly to the United Kingdom, using tin plate supplied from British sources. In prewar this trade ran to 50,000 tons or more, valued at about U.S. $12,000,000 annually. The plan, which awaits approval from Nanking, apparently would involve absorption of profit or loss by the Central Trust at whatever rate of exchange is necessary to deliver goods at a price the British Food Ministry is able to pay.

Dextrin, Corn — Production continued at capacity and was readily taken against former orders—for domestic and export account. Inquiry for export was keen, but trading was light owing to the scarcity of resale material.

Market Trends

Prices Advanced

Egg albumen, 5c. per lb.
yolk, 5c. per lb.
Potato starch, ¾c. per lb.

Prices Reduced

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
315.1	310.9	310.9	288.5

(For Current Prices see Page 9)

Egg Yolk—Higher cost of eggs created a firmer tone in the market. Producers in the West boosted prices about 5c. per pound, and stocks on the spot were raised to $1.25 to $1.30 per pound, depending upon quantity. Trading was light and spasmodic, with buyers restricting demand for to small lots for immediate needs.

Starch, Corn—Steady demand continued to absorb the production. Large quantities were earmarked for shipment abroad which materially reduced available stocks for domestic uses. Demand for resale material was active, with business curtailed by the lack of offerings.

Starch, Potato—Consuming demand was active and with production sold up, stocks were scarce and firmer. Sales of occasional carlots were reported at 8¾c. per pound, New York delivery, with sellers raising the price to 9c. Inquiry for export also was keen, but lack of offers curtailed business. Production for this season has virtually ended, with grinders operating sporadically.

Starch, Wheat—Export demand was fairly active and sales were noted at 7.85c. per pound, carlots, f.a.s. New York. Prices for domestic use were unchanged at 5.80c. to 6.30c. per pound, according to quantity.

Tapioca Flour—Shipments of new crop flour from Brazil were offered more freely, with consumers showing little interest at present asking prices. New crop flour from southern Brazil was quoted at 8¼c. per pound, f.o.b. there, and northern at 6¾c., same basis. Consuming inquiry for stocks on the spot was dull and featureless and the market was entirely nominal at 7½c. to 12½c. per pound, depending upon grade and quantity. Imports totaled 1,300 bags at New York from Brazil last week for delivery on previous contracts.

Tanning Materials

Mangrove Bark—A fair inquiry was reported for shipment from primary centers. Recent trading was reported at $60 to $62 per ton, ex-dock, U. S. ports. Arrivals were noted at 4,700 bags at New York last week for consignment against price orders.

Myrobalans—Trading continued dull. Prices for shipment were unchanged and fairly steady, depending on quality. J1 were quoted at $45 to $46 per ton, and J2 at $42 per ton, ex-dock, U. S. ports.

Quebracho Extract—Arrivals totaled 63,450 bags at Atlantic ports last week for delivery on previous contracts. Demand was reported active for nearby delivery, but trading was curtailed owing to reduced offerings. Offers of small lots for shipment at higher prices were reported by dealers in the Argentine. Prices were firm for solid ordinary at 7 15/16c. per pound, less duty, U. S. ports. Clarified was not available for shipment.

Tara Powder—Active consuming demand continued to feature this market. Trading was restricted for shipment by the scarcity of material and prevailing high prices. Recent business was reported on the basis of $225 per ton, ex-dock, with sellers asking higher prices.

Valonia—Buying interest was quiet. Offers for shipment were quite liberal but tanners showed no interest at current asking prices. Market was entirely nominal for beards at $75 per ton, and cups at $60 per ton, ex-dock, U. S. ports.

Wattle Bark—Tanners continued to show an active inquiry for replacements of bark and extract. Offers for shipment were limited and well held at former levels. Arrivals of bark were reported at 8,800 bales and 6 000 bags of extract last week at Atlantic ports and were delivered on former contracts.

For Late Market Developments, See Page 4

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Coaltar Chemicals

Steel production registered slightly lower last week, the schedule was estimated at 94.5 percent of ingot capacity. This would indicate a slight reduction in coke output and in the production of coaltar chemicals. There was no indication of easement in chemical supplies with the possible exception of toluol. While some producers did not make price revisions, others have advanced their views for several important items. This is evidence that the upward trend started at the beginning of the year has not reached its peak and it is apparent that higher producing costs are still being recognized. The tendency is to price materials at the works. One major producer has discontinued allowing cash discounts.

Buying operations have displayed a greater vein of conservatism and there is more disposition to cover immediate requirements and await future developments. This condition at present has not created much concern because most producers have backlog orders big enough to insure production for some time ahead barring possible cancellations.

USP cresol has been advanced. Cresylic acid was higher in some producing quarters than in others and so were the tar acid oils and phenol although the 82-84 percent and 90-92 percent grades of phenol were higher all around. The upward tendency in basic chemicals has contributed to a strong position in intermediates and dyestuffs. The hydrogenated solvents have tightened under persistent buying and the easement in stocks recently noted proved of temporary existence.

Steel operations for the week beginning April 14 were scheduled at 94.5 percent of ingot capacity, compared with 95.1 percent in the preceding week, according to the American Iron and Steel Institute. A month ago, the indicated rate was 96.4 percent. The present schedule is equivalent to the production of 1,653,700 net tons of ingots and castings, compared with 1,664,200 for the preceding week and 1,364,100 tons for the corresponding week in 1946.

Production figures given below unless otherwise designated are from the Chemical Division of the Department of Commerce.

Basic Products

Benzol—Supply continued about equal to current domestic requirements with export trade restricted by insufficient stocks. Buying interest leaning more toward conservatism. Prices were firmly sustained at recent advance. Bureau of Mines placed February sales of motor benzol at 1,494,734 gallons, a decline of 4.1 percent from January. Sales of nitration were 3,533,083 gallons up 15.8 percent and sales of industrial pure were 7,156,703 gallons down 14.9 percent from sales recorded in January.

Coaltar—Consuming demand taxing current production leaving inventory situation tight. February sales were placed at 28,340,276 gallons, a decline of 15 percent from the January total.

Creosote Oil—Heavy demand for wood preservation has kept ahead of output. Inquiry for refined has shown a satisfactory seasonal increase. Sales of creosote oil in February were 3,159,142 gallons, an increase of 5.2 percent over those registered in January.

Coke By-Products

Estimates of by-product coke-oven operations in the week ended April 12 indicate the following output of by-products from that source:—

Ammonia liquod NH_3	lbs.	1,53,416
Ammonia sulphate	lbs.	29,945,088
Benzol	gals.	3,773,568
Coaltar	gals.	13,998,720
Creosote oil	gals.	779,059
Naphthalene, crude	lbs.	1,217,280
Phenol	lbs.	219,110
Toluol	gals.	754,714
Xylol	gals.	170,419

Market Trends

Prices Advanced

Cresol, USP, ½c., per lb.
Cresylic acid, domestic, tankcars, 6c. per gal.
Phenol, 90-92%, tankcars, ½c. per lb.
82-84%, tankcars, 1c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
133.0	132.7	132.6	127.3

(For Current Prices see Page 9)

Cresol—Prices are higher for the U. S. P. grade. Tankcars are held at 13c. per pound. Drums in carlots 13¾c. and smaller quantities at 14¼c. per pound works, freight equalized with competitive points.

Cresylic Acid—A major producer has advanced prices for this acid and gives $1.10 per gallon as the inside figure for tankcars. Drums in carlots are held at $1.16 per gallon and in smaller quantities at $1.19 f.o.b. the works, freight equalized with competitive points. Drums are returnable at seller's expense. Some of the other larger producers named 95c. per gallon for tankcars but had not revised other quotations up to the close of the week. Inventories have continued exceedingly low and the market position is definitely tight. Importations last week were 679 drums from Liverpool and Manchester.

Naphthalene—Stocks have shown no easement with the advance of the month. Shipments of crude are short to the major consumers and the market has maintained a definitely tight position. Sales of crude solidfying at less than 70° C. in February were 380,908 pounds, down 56.2 percent and sales of 70° C. and less than 79° C. were 5,643,831 pounds, down 17½ percent from January.

Phenol—Some grades of this material are higher with suppliers quoting the 90-92 percent grade at 11¾c. to 12¼c. for carlots in drums and 12½c. for smaller lots. Tanks were quoted from 10½c. to 11½c. per pound. The 82-84 percent grade was priced at 11½c. to 12c. for carlots in drums, 12½c. to 12¾c. for smaller lots and at 11c. per pound for tankcars f.o.b. the works freight equalized with competitive points. Drums are returnable at seller's expense. U.S.P. is covered by the range 10¼c. to 11¾c. per pound for tankcars depending upon the seller.

Solvent Naphtha—Production of refined light solvent amounted to 39,094 gallons in February, compared with 64,643 gallons in the preceding month and 13,451 gallons in February, 1946, according to the Bureau of Mines. Output of crude heavy solvent was 372,619 gallons in February, against 418,942 gallons in January and 153,941 gallons in February, 1946. Stocks at the close of February were 49,128 gallons of refined light, compared with 57,183 gallons on January 31, and 25,687 gallons on February 28, 1946. Stocks of heavy crude solvent were 348,088 gallons at the close of February, compared with 305,944 gallons at the close of January, and 192,394 gallons on February 28, 1946.

Tar Acid Oils—Advanced about 3c. per gallon by some producers but unchanged up to the close by others. Short stocks, active demand and higher producing costs have all been factors contributing strength to the markets position.

Toluol—Continued in freer supply than the other basic crude coaltar chemicals. Prompt shipments were available at former price levels.

Xylol—Stocks meeting essential requirements at former prices. Market position remained about in balance. 37c.; solvent naphtha, same basis, 23c.; creosote oil, grade 1, 17c.

Hydrogenated Solvents

Although the supply situation appeared slightly easier earlier in the month, buying interest last week increased sufficiently to absorb offerings and at the close, the overall market was again in a tight condition. The excellent blending properties of cyclohexanone have made this solvent attractive for use in synthetic

For Late Market Developments, See Page 4

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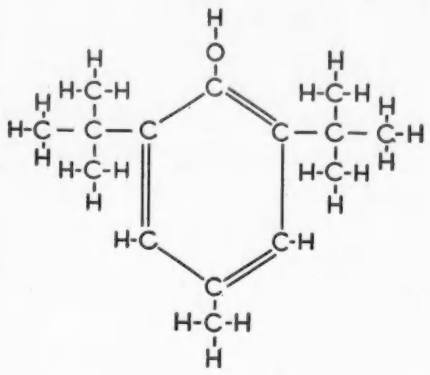

2,6 DI-TERTIARY BUTYL PARA CRESOL

PROPERTIES (PURE COMPOUND):

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BOILING POINT—147° C. at 20 mm., 191° C. at 100 mm., 265° C. at 760 mm.

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resins particularly the polyvinyl chloride varieties. Cyclohexane has found a steady outlet as a solvent for fats and oils and also lacquers. The market's price position is firm reflecting the higher quotations recently established for several of the essential basic chemicals.

Coaltar Acids

Anthranilic — Although no price change has been recorded in either grade of this acid, the market has developed a firm tone with stocks short and the movement confined chiefly to regular contract consumers in the dyestuff trade.

Cleve's—Prices are sustained for the different varieties of this acid also the mixed grade. Essential requirements of regular consumers are being covered by current production but stocks have remained low for additional wants.

Fumaric—Supply conditions have not changed so far this month. Production has been taxed for requirements in the synthetic resin and dyestuff industries and the inventory position has continued definitely tight.

Gamma—Continued to find a steady outlet through contract channels leading mostly to the dyestuff industry. Stocks short with former prices fully sustained.

Maleic — Current production has been readily taken chiefly for use in the manufacture of synthetic resins and protective coatings. Demand has exceeded supplies and there has been no easement in the tight buying conditions formerly noted.

Neville and Winther's — Contracts have been made on the basis of 73c. per pound works for this acid. Essential requirements of regular consumers have taken care of current production.

Sulfanilic—Firm on the basis of 17c. per pound works. Stocks low but apparently meeting requirements of regular dyestuff consumers.

Other Intermediates

Alphanaphthylamine — Continued stringency in the basic product has kept production of this intermediate at a relatively low level. Stocks are short and prices firm.

Anilin Oil—January production is placed at 8,772,510 pounds. Total output for 1946 amounted to 89,131,604 pounds. The market has remained firm at the late advance with a good miscellaneous consuming inquiry reported. Some material was available for prompt shipment.

Betanaphthylamine — Tight supply condition was reported and will likely continue until there is some easement in the supply of basic material.

Metaparacresol—Output in January amounted to 386,411 pounds. Total production in 1946 amounted to 5,493,714 pounds. Prices are higher in some producing quarters. Tankcars for 5-degree boiling range are held at 13c. per pound. Drums, returnable, in carlots, 13¾c., and smaller quantities 14¼c. per pound, f.o.b. works, freight equalized with competitive points.

Monochlorobenzene—This market has continued to feel the impact of an unusually heavy industrial demand that has taxed production. Output in January amounted to 25,352,344 pounds. Production in 1946 is placed at 268,688,154 pounds.

Phthalic Anhydride—Industrial demand has continued at an exceedingly high level and beyond the limit of current plant capacity. The call for use in the manufacture of synthetic resins for enamel type finishes appears to be steadily gaining. Present production is regulated by the amount of crude naphthalene that can be shipped. Production of phthalic anhydride in January was 11,687,485 pounds. Total output in 1946 was 109,253,035 pounds.

Coaltar Colors

Current production has not expanded sufficiently to place the market for dyestuffs in free supply. Shortages, while not as acute as noted a few months ago, continue to exist in the acid direct, vat and other classifications. Producers have continued to face tight supply conditions in many essential basic materials, some of which have recently advanced in price. The position of the general market is firm, with demand broad enough to keep buying conditions tight.

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Drugs and Fine Chemicals

A sharp break in quotations on castor beans in Brazil, accompanied by a fractional decline in spot quotations on castor oil, further reduction in menthol prices, milk powder at cheaper prices, a drop in quotations on quicksilver without reaction by prices on mercurials, a reduction in the less than carlot schedule on tetrahydrofurfuryl when packed in drums and cans, and a slightly downward readjustment of the denatured alcohol schedule—such were the price features noted last week in the market for drugs and fine chemicals.

Other developments of the week included the release of monthly statistics on ethyl alcohol which disclosed much smaller stocks of ethyl and specially denatured alcohol at the end of February when compared with stocks at the close of February, 1946; the extreme scarcity of cinchonidine and cinchonine since government controls were removed—unwisely and against all advice, according to the cinchona bark derivatives industry, and complete stability of silver bullion and silver nitrate quotations.

Demand for most solvents continued to be very active. Although some think present schedules are unsafely high, production costs warrant the schedules for the most part. The fear of some factors seems to be that too high prices will ultimately curtail sales volume and also leave solvents vulnerable to producers being caught with high priced inventories in a declining market. At least, those are some of the thoughts some, though not all, of the producers.

Events are forming in quinine and cinchona bark and it may be that despite 100 percent opposition by the American industry, control of cinchona and quinine by the American government may be removed. Removal of all controls on cinchonidine and cinchonine did not work well in terms of the availability of badly needed stocks of both articles.

Market Trends

Prices Advanced

None

Prices Reduced

Alcohol, denatured, CD14, 1½c. per gal.
SD23H, ¼c. per gal.
SD29, 1c. per gal.
Special solvent, ½c. per gal.
Tetrahydrofurfuryl, dms., l.c.l., 6c. per lb.
cns., 8c. per lb.
Castor oil, ½c. per lb.
Castor beans, $45 per long ton.
Menthol, 25c. per lb.
Milk powder, skimmed, 4c. per lb.
whole, 5c. per lb.
Quicksilver, $1 per flask.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
252.8	253.6	250.5	209.9

(For Current Prices see Page 9)

Acetaldehyde—Although some sellers have reported higher prices others still continue their former schedule and indicate that it is unlikely any change will be made before the first of next month—if then. There is a spread of 1c. between minimum quotations, according to seller, at this time.

Acetone — Competition appeared active so far as price schedules were concerned but it was said that most sellers have little difficulty in disposing of production at this time because demand runs to high volume. However, there is a difference of fully 2c. per pound between the minimum prices of two large suppliers, both of whom find a ready market for current production.

Acid, Boric—Production was reported moving well and promptly against existing contracts and the market seemed to be in healthy condition with prices well stabilized and probable requirements running to a high tonnage throughout the entire year.

Acid, Citric—Crystals were in good request and the price of 25c. per pound in carlot quantities was very firm. In lots of 10,000 pounds, one delivery, the market was 25½c. Smaller quantities, 26c. per pound. Fine granular, and granular USP, 22c. to 23½c. as to quantity. Anhydrous material ranged 24½c. to 26c. per pound according to quantity and packing.

Alcohol—Prices on denatured alcohol underwent slight revisions as all producers set and reset prices to conform with costs and competition. Quotations became:—CD14, tanks, 97½c. per gallon; drums, carlots, $1.04½; less carlots, $1.07½ to $1.11½; SD1, tanks, 98c.; drums, carlots, $1.05; less carlots, $1.08 to $1.12; SD2B, same as SD1; SD23H, tanks, 96½c.; drums, carlots, $1.03½; less carlots, $1.06½ to $1.10½; SD29, same as SD1; special solvent, tanks, 98½c.; drums, carlots, $1.05½; less carlots, $1.08½ to $1.12½c.

The following alcohol data were released last week by the Alcohol Tax Unit, Bureau of Internal Revenue, and compared production, withdrawals, and stock of ethyl, completely denatured, and specially denatured alcohol in February, 1947 and 1946:—

Alcohol Data: February

	Proof gallons	
Production—	1947	1946
Ethyl	18,985,991	22,606,650
*Completely denatured	385,998	406,019
*Specially denatured	11,238,694	9,729,736
	Wine gallons	
Withdrawals—	1947	1946
Ethyl,† tax paid	3,259,970	4,276,044
tax free	21,682,249	18,947,129
*Completely denatured	380,219	415,130
*Specially denatured	11,980,501	10,435,050
Stocks—		
Ethyl†	30,953,878	123,774,393
*Completely denatured	55,058	27,895
*Specially denatured	1,367,924	17,807,083

* Wine gallons.
† Proof gallons.

Alcohol, Tetrahydrofurfuryl — Less than carlot quotations have been reduced.

Ammonia Benzoate—Continued in well stabilized price position and was subject to a very steady call from manufacturing consumers. Supplies were not too plentiful but pressing requirements were being supplied on a reasonably prompt basis.

Ammonia Biborate—Complete stabilization of this article has been achieved both as to price and its movement into consuming channels. The undertone was very steady. Supply was equal to present calls.

Amyl Acetate—Demand was excellent and sufficient in volume to slow down an accumulation of unsold stocks in the hands of all producers. Prices were very firm in the absence of competition and other unsettling factors in an active market.

Brucine—Most sellers say the market is tight; that supply is pressed sorely and that values reflect a strong situation both here and in other markets supplying goods to this country.

Cadmium Salts—All sold freely when available but there is no surplus of goods in this market today and with demand for metal running to high totals, improvement in supplies of salts can be merely hoped.

Camphor—Turpentine has yet to reverse its recently downward trend but the producers of synthetic camphor are taking a stabilized point of view on prices for the time being at least. Demand for synthetic material was reported to be very good and supplies on the open market was not excessive. Some reports intimated that some imported natural camphor has been changing hands around $1.25 per pound—which is sky-high over the price for USP synthetic.

Castor Oil—Brazil has begun to give intimations of prices for new crop beans for shipment next June and forwards. The price proposed was $250 per long ton, f.o.b. Brazilian ports but local operators said that no one was showing interest in buying at that figure. Agents of some shippers have yet to receive shipment proposals. A year ago, the price was $118 per long ton, c.i.f. first United States port.

This "reduction—it was not really that since the former price of $295 per long ton had prevailed on old crop beans while the new price of $250 prevails on new crop beans to be shipped later"—coincided last week with a reduction in castor oil prices by ½c. per pound. By this reduction the price for USP oil in tanks became 32c. per pound; No. 3, tanks, 31¾c. and the reduction applied to deliveries of oil in drums, both carlot and less than carlot amounts.

Arrivals of beans last week totaled 23,227 bags, or 3,484,050 pounds, which compares with 22,950 bags, or 3,442,-

For Late Market Developments, See Page 4

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500 pounds arrived in the previous week and 27,048 bags, or 4,057,200 pounds arrived in the corresponding period, 1946.

Total arrivals since January 1 this year became 589,769 bags, or 88,465,350 pounds, comparing with 543,485 bags, or 81,512,750 pounds arrived in the corresponding period of time, 1946.

Chicago, April 17.—Call for castor oil is holding up fairly well. USP and No. 3 grades of oil were reduced ½c. per pound. Dehydrated, tankcars, unchanged at 38c. per pound.

Cinchonine, Cinchonidine—Removal of all controls over this item has not worked in favor of needed goods getting into the hands of manufacturing consumers dependent on importations for their supplies. The responsible shippers are understood not to have made deliveries as promised.

Cocoa Butter—Conditions in the raw material market do not point to an increase in the amount of cocoa butter to be available. Those concerned with the importation of beans say the future of supply is dark.

Codliver Oil—Poultry grades have been selling well as poultrymen protected requirements for their 1946 hatch of chicks. Medicinal oil was in fair demand but within the usual seasonal limitations. Prices remained very firm in all respects.

Cream of Tartar—Steady prices on the basis of the late decline in values prevailed last week and sellers reported very good inquiry and sales volume by the end of the period. Competition from foreign parts was said to be growing in the tartrate market generally.

Emetine Hydrochloride—Prices remain very high in keeping with the success that has attended those who in foreign parts have sought to export the finished product rather than the ipecac root from which it is made.

Fishliver Oils—Exports of livers from Costa Rica during the first quarter of 1946 amounted to 36,280 kilos, valued at $34,075. Reports from Australia indicate the growth of shark fishing as an industry to provide concentrates to be used medicinally. This new industry is said to be providing Australia with sharkliver oil concentrates as a substitute for codliver oil.

Furfural—Refined material is no longer being offered commercially on the open market. Or at least it is not being so quoted. The technical article was confirmed as to price and stability of position.

Glycerin—Supplies have increased in some measure. While no surplus of stocks exists, more material is moving into consumption more promptly than had been the case in the not far distant past. A small sign of unsettlement has also been noted in crude glycerin. Demand has continued to be very good, especially from the plastics industry whose requirements have been large scale for a long time past. Pricewise, the market continued to remain very firm with the largest producers maintaining 55c. as their basic tankcar price for refined, dynamite, high gravity, and yellow distilled material.

Chicago, April 17.—Call for products in the glycerin market is fairly good. Inquiries continue to be made by buyers. Ruling prices for both chemically pure and high gravity are:—Tankcar, 55c. per pound; drums, carlots, 55¼c.; drums, less than carlots, 55¾c.

Iodides—The old schedule on this group—that prevailing before the recent and very sharp advance in prices on crude iodine—continued in effect but it was admitted some time back that changes would be made ultimately. The same applies to resublimed iodine and iodoform.

Magnesia Carbonate—Trade was reported somewhat improved. The gain in activity was fairly broad in consuming industries and contributed added strength to the already very steady quotations of producers.

Menthol—The spot market was $8.25 to $8.50 per pound for Brazilian menthol. News from Japan was that the former menthol manufacturers are negotiating for American representation and one of them has already indicated his outlet in this country. Peppermint culture is back in the agenda of Japanese agriculture and Japanese advices have indicated that at least one maker will be back with menthol for shipment out of the 1947 crop. Also, signs point to China expanding its influence in the world market for menthol.

Mercurials—Demand for hard mercurials was very good. The movement of corrosive sublimate and calomel was especially steady last week and sales were made at exceptionally steady prices. The soft mercurials were active in lesser degree. The expected rise in quotations on mercury iodides has yet to take place.

Mesityl Oxide—No further rise in price has taken place but the new price position recently established proved to be very firm and it was well supported with sustained demand for the item.

Milk Powder—The Department of Agriculture in April is considering offers of skimmed milk powder packed in export barrels with half-inch cleated heads. This lighter head led the department to reduce prices it would pay by ⅛c. per pound. Under the support program, the department purchases skimmed milk powder for not more than 9c. per pound for roller process and 10c. for spray process in export barrels with ⅝-inch heads.

Recent purchases of roller process totaled 3,758,400 pounds at 9c. per pound, and 4,054,088 pounds of spray process at 10c. Spot quotations for skimmed milk powder, roller process, bulk, carlots, were 11¼c. per pound; spray process, 11¾c. No roller process whole milk powder was offered but some spray process was to be had for 36c.

Potash Bromide—Although rather routine in variety, the call was still productive of fair sized volume and the general market undertone continued to be very steady. Some buyers seemed disposed to cover requirements reasonably well ahead and they seemed to experience little difficulty in getting their needs.

Potash Citrate—Sellers seemed slightly reserved but they continued to quote the prices prevailing at and since the price for citric acid was ad-

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vanced 2c. per pound. A general rise in citrates seemed likely at that time but no public announcement of a change has yet been made.

Pyridoxin Hydrochloride — Values have been generally steady since the recent and very substantial price decline was put into effect. The market was also steady from the standpoint of demand, volume being well maintained at levels prevailing for some time past.

Quicksilver—The market was rather quiet. Spot demand was mainly for small lots and these were obtainable without much difficulty. Trading in large lots was in abeyance, possibly because of the uncertainty that surrounds ultimate disposal of the large quantities of metal now owned by the government in its home and foreign stores.

San Francisco, April 16.—Interest was being well maintained in the quicksilver market here this week. Prices remained steady. Producers were quoting metal between $85 and $86 per flask, f.o.b. this city.

Saccharin—The supply situation improved as time passes and so far as prices of producers are concerned, it was clear that the current schedule was not likely to be changed at any early moment. Stability is being maintained regardless of what the black market has been able to get or the prices obtainable by those selling imported goods.

Quinine—Events are forming in this article and its raw material. During the war, heavy investments were made by the American industry, first to get cinchona when the Netherlands East Indies were in the hands of the Japs and, second, to create for both North and South America independence of the NEI, the world center for cinchona cultivation that was cut off during two world wars. It is known that far-reaching plans are even now going forward to make it certain that countries of the western hemisphere would never again go short of quinine and bark.

Before both wars, cinchona bark and quinine were a tight monopoly of the Dutch. During World War No. 2, that monopoly was at least shaken and recent events suggest that restoration of the monopoly is on the Dutch agenda. Three distinct times over a relatively short period of time the information which the United States government solicited from the American quinine makers suggested that the return of quinine and cinchona to private industry was being considered by government officers. Each time, private industry advised strongly against such action and stated that removal of controls would ruin investments close to $1,000,000—investments made for the purpose of freeing American quinine from complete, monopolistic control by the Dutch —and whose removal would mean the razing of installations made for that purpose.

Silver—Complete price stability has prevailed since the last report. Bullion held at 76c. per ounce and silver nitrate in 250 ounce bottles ranged 50⅝c. to 51⅜c., according to quantity. Neucleinate and proteinate also were under complete stabilization.

Silver Price Range

	Per ounce	
	New York	London
High	Mar. 6—86¼c.	Jan. 2—55½d.
Low	Jan. 20—70⅝c.	Feb. 5—44d.

Soda Glutamate—The demand continued active enough to keep supply in fairly tight position and to maintain strong undertones so far as prices are concerned.

Strychnine—If the demand were present, it would seem as though the complete line of strychnine salts could be produced. At least the supplies of raw material have increased heavily over the past year and the future of nux vomica availability seems to be entirely favorable to an excellent production of strychnine. Meanwhile, producers usually offer only alkaloid and sulphate.

Trade Briefs

New Brunswick Drug Company, Vernon, Calif., will hold open house May 5-9 and 12-16.

Phenyl mercuric compounds uses as effective germicides and fungicides have been outlined in a booklet which is available without charge from Edwal Laboratories, Inc., 732 Federal street, Chicago 5, or from Metalsalts, Inc., 200 Wagaraw road, Hawthorne, N. J.

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N.W.D.A. Sets April 22-23 Program

Presentation of the final Ostlund handling cost report, and the final reports of the research fellows on sales management and warehouse operations, will feature the 1947 special meeting of the National Wholesale Druggists' Association, to be held at the Palmer house, Chicago, April 22-23.

The handling cost report will be presented on the morning of the first day of the meeting by B. H. Badanes, of McKesson & Robbins, Inc. Other subjects to be presented that morning are the mid-year reports of C. C. Caruso, of Schieffelin & Co., and Claude L. Smith, McKesson & Robbins, president and first vice-president, respectively, of the association; "Current Trends in Distribution Through the Drug Trade," Harold M. Altshul, Ketchum & Co.; "Job Classification and Evaluation," Charles D. Doerr, McKesson & Robbins, and "A Better Public Understanding of Vitamins," Dr. Robert Goodhart, scientific director of the National Vitamin Foundation.

The luncheon speaker on April 22 will be Lowell B. Mason, a member of the Federal Trade Commission, who will discuss "Get the Devil Out of Business."

The results of the association's research on sales management and warehouse operations will be presented during the afternoon of the first day. Speakers will be Charles T. Lipscomb jr., McKesson & Robbins, "Determining Salesmen's Automobile Expense Allowances"; Dr. H. C. Nolen of Ohio State University, H. C. Van Arsdale of Smith, Kline & French, Inc., Norman Longfellow of Spence-McCord Drug Company, and Mr. Lipscomb, "An Analysis of the Wholesale Drug Salesman to Develop More Effective Wholesale Selling," and George W. Kauffman, of Kauffman-Lattimer Company, Walter Scott of Scott Drug Company, C. A. Loring jr. of Gilman Brothers, Inc., and Dr. Nolen, "Modernizing the Wholesale Drug Warehouse."

A panel discussion on the Nielsen research report will be held on the morning of April 23. Speakers will be Carl Hoffmann, McKesson & Robbins, "Stabilizing Profits Through Inventory Control"; R. C. Brewster, Frederick Stearns & Co., division of Sterling Drug, Inc., "Your Growing Invisible Competitor"; John Hoagland, retail druggist of New Brunswick, N. J., "Shall We Eliminate Salesmen?" and T. E. Hicks, Hanly, Hicks & Montgomery, "Advertising Impact in the Drug Industry."

The guest speaker at the luncheon on April 23 will be Cyrus S. Ching, director of industrial and public relations for the U. S. Rubber Company, who will discuss "You and Your Industrial Relations." There will be no afternoon sessions on April 23.

Medicinal Research Monograph Planned

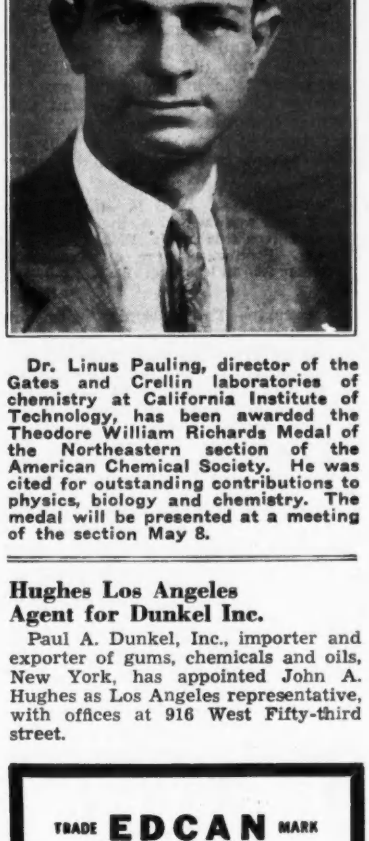
The medicinal division of the American Chemical Society will publish its first monograph on world-wide medicinal research advances early next year. Dr. C. M. Suter, associate research director, Sterling-Winthrop Research Institute, Rensselaer, N. Y., has been appointed editor-in-chief of the monograph.

On the editorial board are Dr. Walter H. Hartung, professor of pharmaceutical chemistry at the University of Maryland school of pharmacy; Dr. Richard Roblin, director of chemotherapeutic research for the American Cyanamid Company; Dr. Peter K. Knoefek, professor of pharmacology at the University of Kentucky school of medicine, and Dr. Edward F. Degering, professor of organic chemistry at Purdue University.

Canada Tightens Drug Regulations

Canada has revised its Food and Drug Act regulations to the effect that streptomycin and its compounds and penicillin and its salts may not be sold to the general public except on prescription of physician, dentist or veterinary surgeon. The restriction, however, does not apply to penicillin and its salts for oral use which contain not more than 3,000 international units.

Wins Richards Medal



Dr. Linus Pauling, director of the Gates and Crellin laboratories of chemistry at California Institute of Technology, has been awarded the Theodore William Richards Medal of the Northeastern section of the American Chemical Society. He was cited for outstanding contributions to physics, biology and chemistry. The medal will be presented at a meeting of the section May 8.

Hughes Los Angeles Agent for Dunkel Inc.

Paul A. Dunkel, Inc., importer and exporter of gums, chemicals and oils, New York, has appointed John A. Hughes as Los Angeles representative, with offices at 916 West Fifty-third street.

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Procter Picture Presented to P.C.P.

Dr. Ivor Griffith, dean of the Philadelphia College of Pharmacy and Science; Frank F. Law, vice-president of Wyeth, Inc.; and J. Mervin Rosenberger, president of the PCP alumni association, view mural of the painting, Father of American Pharmacy (William Procter, Jr.) presented by Wyeth, Inc., to the college on the occasion of the 126th anniversary of its founding.

Sugar from Spoiled Syrups Held Feasible

Edible sugar supplies may be materially increased by a new method for extracting pure sugar from spoiled syrups and molasses products, it was reported in a paper presented by Emanuel Bloch and Richard J. Ritchie of the Pepsi-Cola Company, Long Island City, N. Y., before the division of sugar chemistry and technology of the American Chemical Society last week.

The new method utilizes chemically charged resins to absorb impurities from syrup or molasses, the report explains, and in addition pure sugar organic acids, such as acotinic acid which is of great value to the plastics industry, can be recovered.

The process, essentially one of removing minerals, has been used for decreasing the yield of molasses in the extraction of sugar from beets, but it has never been applied to extracting sugar from molasses, which has been used chiefly for cattle feed, it is reported.

Bemis Elects Parsons To Board of Directors

George H. Parsons, treasurer of the Interstate Chemical Company, Seattle, Wash., has been elected a director of the Bemis Bro. Bag Company, St. Louis. He is a grandson of Judson M. Bemis, founder of the bag company.

Trade Briefs

Publicker Industries Inc., Philadelphia, has changed its telephone number to LOcust 4-1400.

United Wallpaper, Inc., has developed DDT-treated wallpaper designed to provide protection against disease-carrying insects.

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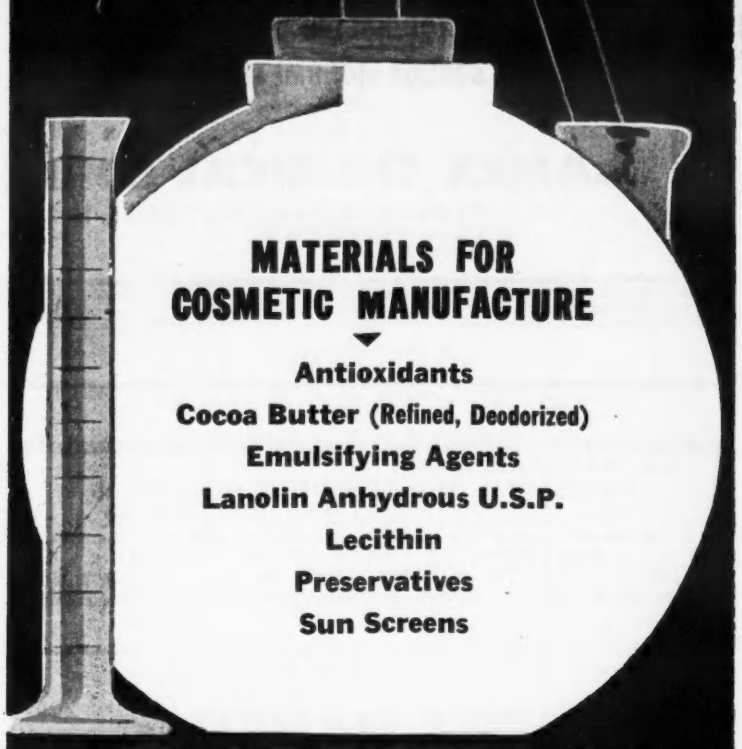

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Lincoln Drug 50 Years Old

The Lincoln Drug Company, Lincoln, Neb., celebrated its fiftieth anniversary April 14, with a dinner in the Cornhusker hotel, Lincoln, at which more than 600 officials and employees of the company and guests were present.

The company was incorporated in 1897 by a group of local business men, and four years later Aaron S. Raymond purchased controlling interest and became president. Arthur S. Raymond, who joined the company in 1902, was elected president upon the death of his father in 1922.

With Mr. Raymond as president and treasurer, the present official family of the concern consists of E. T. Sickel, as vice-president and general manager, and H. H. Baeke as secretary. These, together with Mrs. Ruth Gavin and R. E. Weirich, make up the board of directors.

Schultz Heads ACS Delaware Section

Dr. Raymond F. Schultz, director of the Hercules Powder Company's experiment station, Wilmington, Del., has been named chairman of the Delaware section of the American Chemical Society. He will assume office in June, succeeding Dr. George E. Holbrook, of the Jackson Laboratory.

Dr. Richard S. Schreiber, research supervisor at the du Pont experiment station was chosen chairman-elect. He will become chairman of the section in 1948. Dr. Walter A. Raczynski, research chemist at the Hercules experiment station, was elected secretary, and Dr. Nicholas J. Letang, laboratory head of the du Pont organic chemicals department Chambers Works Azo Area, treasurer.

A.D.M.A. Meeting Program Takes Shape

At the thirty-fifth annual meeting of the American Drug Manufacturers Association, to be held in the Homestead, Hot Springs, Va., June 9-12, the association's scientific section will present reports from the following committees: — medicinal chemicals, general medicinal preparations, glandular products and ferments, vitamins, botanical drugs, physical tests and standards, pharmacological assays, and replacement materials.

Trade Briefs

Union Bag & Paper Corporation, New York, has elected to the board Kenneth J. Hanau and Robert W. Groves.

E. I. du Pont de Nemours & Co. stockholders have approved an increase in authorized preferred stock from 3,000,000 to 4,000,000 shares.

Frederick Stearns & Co., division of Sterling Drug Inc., Detroit, has prepared a slide film entitled "Modern Concepts of Retailing." The film is being shown at meetings of wholesale druggists throughout the country.

St. Regis Elects Two Vice-Presidents

The St. Regis Paper Company, New York, has elected William H. Versfelt and Edward G. Murray as vice-presidents. Mr. Versfelt is treasurer of the company and its subsidiary, the St. Regis Sales Corporation. Mr. Murray is executive vice-president of the sales corporation.

St. Regis also elected Ashley D. Pace, vice-president and a director of Florida Pulp & Paper Company and Alabama Pulp & Paper Company, and Gurdon W. Wattles, former partner in White, Weld & Co., to the board of directors.

Winthrop Making Vitamin D_3 In Crystalline Form

Production of Vitamin D_3 in crystalline form has been announced by the Winthrop Chemical Company, Rensselaer, N. Y. Known chemically as activated 7-dehydrocholesterol, it is described by the company as being in the purest state obtainable. It is now available to the pharmaceutical and food industries.

Mitchell Joins Southern Research Institute

Jack H. Mitchell, jr., formerly associated with the Air Reduction Company, New York, has joined the Southern Research Institute as head of the food section of the biochemistry division. Before going with the Air Reduction Company, he was a member of the technical command of the Chemical Warfare Service.

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N.E. Chemical Club Headed by Krackeler

Joseph J. Krackeler, of E. I. du Pont de Nemours & Co., was elected president of the Chemical Club of New

J. J. Krackeler

England at the first annual meeting held at the University Club, Boston, April 14.

Other officers elected for 1947-48 were Warren E. Johnson, U. S. Industrial Chemicals, Inc., vice-president; A. Mosher Cooke, Commercial Solvents Company, treasurer, and Raymond B. Anthony, Solvay Sales Corporation, secretary. David J. O'Connell, of Howe & French, Inc., was elected a member of the executive board for three years.

Monsanto Opens Boston Office

Opening of a new Monsanto Chemical Company sales office in Boston to handle regional sales of organic chemicals, phosphates, alcohol and dry ice, and to serve as a divisional branch for the company's export sales and shipping department, was announced last week. The organic and phosphate sales staff in the new office, at 140 Federal street, will be headed by Thornton Jesdale. Paul Huntington will have charge of alcohol and dry ice sales, and Robert E. Holmes will head the export sales and shipping department branch.

Katz Forms Firm

Meyer K. Katz, formerly affiliated with Volupte' Compacts, Inc., and its cosmetic affiliate, The Herb Farm Shop, Ltd., as vice-president and sales manager, has formed M. K. Katz & Co., with offices in the Empire State building, for distribution to the retail trade.

Industrial Application

—Continued from page 7

Kobaltnitramarin, Konigsblau, Leyden Blue, Thenard's Blue, Wienerblau)

Ceramic—Pigment in coatings and glazes for ceramics and in imitation marble compositions.

Cosmetic—Pigment in eye shadows, grease paints.

Miscellaneous—Pigment in coloring artificial flowers.

Motion Picture—Pigment in projection screen compositions.

Paint, Varnish, and Lacquer—Pigment in oil and water paints of various kinds and in making fine colors.

Printing—Pigment in banknote and bond printing compositions, particularly in France (its color is difficult to reproduce by photography).

Cyclopentyl Lauramide

Insecticide and Fungicide—Claimed (U.S. 2151369) as insecticide.

Miscellaneous—Claimed (U.S. 2151369) as synthetic wax.

Paint, Varnish, and Lacquer—Claimed (U.S. 2151369) as plasticizer.

Dibenzyl Ether

(Additional uses—supplementary to those already given in the book, Uses and Applications of Chemicals and Related Materials.)

Adhesives—Plasticizer in adhesive compositions containing cellulose acetate or nitrocellulose.

Ceramic — Plasticizer in compositions, containing cellulose acetate or nitrocellulose, used as coatings for protecting and decorating ceramic articles.

Chemical—Plasticizer for cellulose acetate, nitrocellulose.

Electrical—Plasticizer in insulating compositions, containing cellulose acetate or nitrocellulose, used for covering wire and in making electrical machinery and equipment.

Glass—Plasticizer in compositions, containing cellulose acetate or nitrocellulose, used in the manufacture of nonscatterable glass and as coatings for protecting and decorating glassware.

Leather—Plasticizer in compositions, containing cellulose acetate or nitrocellulose, used in the manufacture of artificial leathers and as coatings for protecting and decorating leathers and leather goods.

Metal Fabricating—Plasticizer in coating compositions, containing cellulose acetate or nitrocellulose, used for protecting and decorating metallic articles.

Miscellaneous—Plasticizer in coating compositions, containing cellulose acetate or nitrocellulose, used for protecting and decorating articles of various kinds.

Paint, Varnish, and Lacquer—Plasticizer in paints, varnishes, lacquers, enamels, and dopes containing cellulose acetate or nitrocellulose.

Paper—Plasticizer in compositions, containing cellulose acetate or nitrocellulose, used in the manufacture of coated papers and as coatings for protecting and decorating articles made of paper or pulp.

Photographic—Plasticizer in making films from cellulose acetate or nitrocellulose.

Plastics—Plasticizer in making laminated fiber and molded articles, and plastics containing nitrocellulose or cellulose acetate.

Resins—Plasticizer in resin-nitrocellulose compositions and solutions.

Rubber—Plasticizer in compositions, containing cellulose acetate or nitrocellulose, used as coatings for decorating and protecting rubber goods.

Stone—Plasticizer in compositions, containing cellulose acetate or nitrocellulose, used as coatings for decorating and protecting artificial and natural stone.

Textile—Plasticizer in compositions, containing celiulose acetate or nitrocellulose, used in the manufacture of coated fabrics.

Wood—Plasticizer in compositions, containing nitrocellulose, used as protective and decorative coatings on woodwork.

2-Para-azobenzenesulphonamido-4-methylthiazole

Pharmaceutical—Claimed (Brit. 517-272) as therapeutically useful new compound.

Sebacic Acid Cyclic Acyloin

Cosmetic—Ingredient (U.S. 2228268) of perfumes.

Fats, Oils, and Waxes—Claimed (U.S. 2228268) as synthetic wax.

Resins—Intermediate (U.S. 2228268) in making synthetic resins.

2:4:6-Trihexylphenol

Lubricant—Claimed (U.S. 2298660) as oil-soluble antioxidant.

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Chemical—New compound offered for experimental research.

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Fungicides Development By Navy Reported

Fungicidal attacks on naval equipment in the tropics have resulted in the discovery of new types of fungicides, many of which show great promise and merit considerable attention in the fields of medicine, agriculture and food technology, Warren E. Weaver and Wilson M. Whaley of the Naval Research Laboratory, Washington, D. C., told the American Chemical Society's annual meeting last week.

"One type of highly fungicidal chemicals possesses an activated bromine atom due to the electron-attractive forces of neighboring atoms," the report said. "One of the best fungicides of this class," it added, "is alpha-bromoacetanilide, which, though unsuited for clinical use, has great industrial possibilities."

Other organic compounds cited were the thiocyanates, which contain nitrogen and sulphur, and are likewise very fungicidal and probably not unsuited to medical practice. Substitution of selenium for sulphur in these compounds was found to result in even greater toxicity to fungi, but also in greater human toxicity. The previously known fungicidal activity of phenolic compounds and of organic derivatives containing mercury was said to have been substantiated in a general way. Many compounds of these types are not toxic, however, it was added, and consideration must be given to the inner structure of the molecules, its solubility and its reactivity.

Abbott Laboratories Promotes Five

The promotion of five men to higher executive sales positions has been announced by Raymond E. Horn, recently elected president and general manager of Abbott Laboratories, Chicago.

David D. Stiles has been appointed associate director of sales and chairman of the sales executive committee. Mr. Stiles is in his thirty-second year with Abbott. He served sixteen years as salesman, professional service representative and district manager. In 1934, he was appointed manager of the drug trade division of the company. Four years later he was named executive assistant sales manager.

H. S. Wilkinson has been appointed general sales manager. He began work in the biological department in 1929, and after several years became assistant secretary to the sales director of the Dermatological Research Laboratories, then a division of Abbott. In 1933, he was added to the field sales staff. Mr. Wilkinson was promoted to district manager in 1937, became manager of the Cincinnati branch in 1943 and manager of the east-central sales division in November of last year.

E. E. Sweebe, D. V. M., A. R. Schramm and J. W. Addington, formerly assistant sales managers, have been appointed associate general sales managers. Mr. Wilkinson is succeeded as east-central divisional sales manager by Harold Clauson. Mr. Clauson joined the company in 1933 as a salesman after four years' retail drug experience. He became a district manager in 1944.

Haller Gets New Post In Agriculture Dept.

OPD Washington Bureau

Dr. H. L. Haller has been appointed special assistant to the chief of the bureau of entomology and plant quarantine of the Department of Agriculture. Since he has been an assistant leader of the bureau's division of insecticide investigations.

Dr. Haller was chief chemist for the Jarecki Chemical Company, Cincinnati, until 1921, and conducted research on fundamental organic problems at the Rockefeller Institute for Medical Research until 1929. He has been with the Department of Agriculture since that time.

Milton Roy Co. Elects Officers

The Milton Roy Company, manufacturer of chemical and high pressure pumps, Philadelphia, has elected Robert T. Sheen president, to succeed his father, the late Milton Roy Sheen, who died April 3. Other officers elected are John W. Walker, vice-president and general manager; E. Elizabeth Sheen, secretary, and John J. Smith, treasurer. The board of directors is composed of Mr. Sheen, chairman, and John J. Welker and M. S. Maleson.

Heads General Aniline

Jack Frye, former president of Trans World Airlines, has been elected chairman of the board of General Aniline & Film Corporation, and its selling agent, the General Dyestuff Corporation, it was announced last week by Attorney General Tom C. Clark. General Aniline & Film is 97 percent owned and General Dyestuff is wholly owned by the government through the Office of Alien Property of the Department of Justice. They were seized by the government at the outbreak of the war.

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Streptomycin Role In Output Control

Streptomycin has assumed the role of policeman in controlling and improving the process by which it is produced, according to a report presented to the American Chemical Society by C. J. Christensen, Dr. F. J. Christensen, Dr. F. J. Rudert and Dr. Milton J. Foter of the William S. Merrell Company, Cincinnati.

Successive generations of the mold which produces the drug tend to develop modified forms, which yield less of the streptomycin, the report explained, declaring that this tendency seems to be conquered by the addition of small amounts of the pure drug.

The end result of the controlled process was said to be a substantial increase in the total volume of streptomycin produced from a given quantity of culture, the amount being actually greater than that obtained from the fresh parent strain.

Synthetic Chemicals As Antibiotics Tested

Synthetic chemicals with powerful antibiotic properties resembling those of penicillic acid have been prepared and are being tested, it was disclosed in a paper by Merritt C. Fernald and Walter B. Geiger, of the New Jersey agricultural experiment station, Rutgers University, presented at the American Chemical Society.

The synthetic compounds, prepared in the laboratory, have demonstrated startling power to kill microbes and fungus growths, according to the paper. The most powerful of the synthetic antibiotics tested is acrylophenone, but this compound is only slightly soluble in water and is closely related to beta-methylacrylophenone, which is highly toxic to animals, it was reported. A search is being made for compounds which would retain the antibiotic and antifungal properties of acrylophenone, but be less toxic toward animals.

Yeast From Wood Waste Process Developed

Proteins for food and industrial uses can be made by a new process for growing yeast from wood wastes, it was disclosed in a paper by Elwin E. Harris, Martha L. Hannan, and Ralph R. Marquardt of the Department of Agriculture, at the 111th national meeting of the American Chemical Society.

About 50 percent of the wood used can be converted into sugar which, in turn, yields about 40 to 50 percent yeast it was asserted. For each 100 pounds of sugar a little more than six pounds of chemicals—nitrogen phosphates and chlorides—are required. Complete utilization of the sugar to produce yeast was obtained in three to four hours processing in a continued fermentor, the report said. Neutralization of the sugar and addition of sulphites and oxygen, it was found, increased the yield of yeast.

N.Y. Chemical Engineers To Meet April 22

The New York section of the American Institute of Chemical Engineers and the Junior Chemical Engineers will hold a joint dinner meeting at the King Arthur restaurant, London Terrace, April 22. Dinner will be served at 6:45 p.m. and the meeting will start at 8 o'clock.

Trade Briefs

American Can Company, New York, has placed its medical departments at the disposal of all employees in the metropolitan area for smallpox vaccinations.

Winthrop Chemical Company, Rensselaer, N. Y., has developed a new salt substitute, known as 'Neocurtasal,' which will be sold in retail drug stores.

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AGAR—2 bbls, J L Ward & Co, Vera Cruz

ANTHRAQUINONE—4 dms, C A Pfeiffenboiger, Liverpool

ANTIMONY ORE—764 bgs, J W Hampton & Co, Antofagasta—939 bgs, Philipp Bros, Antofagasta

ARECANUT—120 bgs, S B Penick & Co, Colombo

ARSENIC—333 bbls, American Smelting & Refining Co, Tampico—Metallic, 20 pkgs, Metallo Chemical Corp, London

ARTISTS MATERIALS—3 cs, Jung Forwarding Co, Rotterdam—24 cs, Winsor & Newton, London

BEES WAX—13 bgs, Strahl & Pitsch, Puerto Barrios—160 bgs, Will & Baumer Candle Co, Santos—194 bls, Lisbon—961 blocks, Chemical Bank & Trust Co, Lobita

BELLADONNA LEAVES EXTRACT—5 cs, National City Bank, London

BILE, POWDERED—32 cs, American Ferment Co, Inc, Vera Cruz

BONES—20 bgs, Kind & Knox Gelatine Co, Santos

BUTTONLAC—550 bgs, Gillespie-Rogers-Pyatt Co, Calcutta—250 bgs, Alfred Isaacs & Sons, Calcutta

CANTHARIDES—2 cs, Peek & Veisor, Antwerp

CARAWAY SEED—100 bgs, Catz American Co, Rotterdam—50 bgs, C M Van Sillevoldt, Rotterdam

CARNAUBA WAX—25 bgs, Wm M Allison & Co, Parnaiba—63 bgs, E A Bromund Co, Parnaiba—250 bgs, S C Johnson & Sons, Parnaiba—77 bgs, Wm Diehl & Co, Fortaleza—45 bgs, American Cyanamid & Chemical Corp, Fortaleza—78 bgs, Wm M Allison & Co, Fortaleza—20 bgs, Davies Irwin, Montreal, Fortaleza—143 bgs, E A Bromund Co, Fortaleza—44 bgs, Wessel, Duval & Co, Fortaleza—335 bgs, S C Johnson & Sons, Fortaleza—340 bgs, American Cyanamid & Chemical Corp, Natal

CASTOR BEANS—3,038 bgs, Spencer Kellogg & Sons, Fortaleza—2,355 bgs, Baker Castor Oil Co, Fortaleza—2,700 bgs, Baker Castor Oil Co, Recife—8,335 bgs, Bunge Corp, Bahia—1,694 bgs, Sherwin-Williams Co, Bahia—768 bgs, Spencer Kellogg & Sons, Jacmel—1,619 bgs, Spencer Kellogg & Sons, Port au Prince—1,448 bgs, Spencer Kellogg & Sons, Santos—1,270 bgs, Baker Castor Oil Co, Bahia

CASTOR OIL—494 dms, Bunge Corp, Recife—249 dms, Chemical Bank & Trust Co, Recife—7 dms, East Asiatic Co, Santos

CELLULOSE SULPHATE EXTRACT—5 bgs, R S Aries, Stavenger

CERAMIC COLORS—4 cs, J E Bernard & Co, Liverpool

CHICLE GUM—377 bls, Mexican Exploitation Co, Vera Cruz—923 bls, Chicle Development Co, Puerto Barrios—300 bls, L A Dreyfus & Co, Puerto Barrios

CHILLIES—24 bgs, Mombasa—629 bgs, Angus, Mackey & Co, Lagos—262 bgs, P H Petry & Co, Lagos

CHINA CLAY—10 cks, Meadows, Wye & Co, London

CHROME ORE—3,002 tons, 4 cwt, Mutual Chemical Co, Lourenco Marques—6,858 tons, Union Carbide & Carbon Corp, Izmir

CINCHONA BARK—1,571 bls, Reconstruction Finance Corp, Puerto Barrios—3 cs, Guaranty Trust Co, Rotterdam

CINNAMON—161 bls, Volkart Bros, Colombo

CINNAMON LEAF OIL—10 dms, R C Treet & Co, Mombasa

CITRONELLA OIL—42 dms, Volkart Bros, Galle—27 dms, Magnus, Mabee & Reynard, Galle—3 dms, H A Sothern & Co, Puerto Barrios—10 dms, Bank of Manhattan Co, Puerto Barrios

COBALT, FINE—1 cs, African Metal Corp, Antwerp—Metal, 300 cks, African Metal Corp, Antwerp

COD OIL—194 dms, 56 cks, National Oil & Products Co, St Johns—200 dms, National Oil Products Co, Bergen

CODLIVER OIL—600 dms, Eelsingh & Lugtigheld, Bergen—200 dms, H H Rosenthal Co, Bergen—360 bbls, Arista Oil Products Co, Alesund—250 dms, Peder Devold Oil Co, Alesund—200 dms, Norwich Pharm Co, Alesund

COLOMBO ROOT—123 bgs, Rymond J Lepow, Dar Es Salaam

COPAL GUM—284 bgs, Brown Bros-Harriman Co, Matadi—1,074 bgs, O G Innes Corp, Matadi—885 bgs, H P Winter & Co, Matadi

CRESOL—1 dm, Monsanto Chemical Co, Liverpool

CRESYLIC ACID—154 dms, Monsanto Chemical Co, Liverpool—225 dms, Liverpool—300 dms, Chase National Bank, Manchester

CYANIDE, PRECIPITATED—10 cs, Irvington Smelting & Refining Works, Puna

DIATOMACEOUS EARTH—507 bgs, C B Chrystal & Co, Vera Cruz—657 bgs, Whittaker, Clark & Daniel, Vera Cruz

DYES, ANILIN—43 dms, L & R Organic Products Corp, Rotterdam—98 dms, Geigy Co, Havre—8 dms, Sandoz Chemical Works, Bordeaux—36 dms, Alltransport, Inc, Havre

DYESTUFFS—50 dms, F C Gerlach & Co, Rotterdam

FISH SOUNDS—9 bls, Paul & Stein Bros, Puerto Cabello

FISH LIVERS—102 bbls, International Fisheries Corp, Lobito

FLINT PEBBLES—1,760 bgs, New Jersey Pulverizing Co, Havre—2,236 bgs, Buebendorf Bros, Havre—1,712 bgs, United States Line, Havre

FUEL OIL—62,088 bbls, Asiatic Petroleum Corp, Aruba—410,000 bbls, Standard Oil Co, N J, Aruba—108,958 bbls, Standard Oil Co, N J, Cartagena

GALL—1 kg, Tupman-Thurlow Co, London—9 tres, G D Searle & Co, Santos

GARNETLAC—25 bgs, London—305 bgs, Wm Zinsser & Co, Calcutta

GELATIN—3 bls, Kind & Knox Gelatine Co, Antwerp

GERANIUM OIL—11 dms, Matadi

GINGER—430 bgs, Superintendence Co, Freetown—286 bgs, Freetown

GLUESTOCK—231 bgs, Karr, Ellis & Co, Liverpool

GRAPHITE—10 bgs, Heidis International Shipping Co, London—250 bgs, Superior Flake Graphite Co, Chicago, Colombo—500 bgs, Asbury Graphite Mills, Colombo—7 cs, Koh-I Noor Pencil Factory, Rotterdam

GYPSUM—4,618 tons, United States Gypsum Co, Windsor

HARDENING COMPOUND—50 dms, R F Downing & Co, London

HELLEBORE ROOT—6 bls, Genoa

HERB, MEDICINAL—4 bdls, E Meer & Co, Barcelona—26 bdls, J L Hopkins & Co, Barcelona

HEXAETHYL TETRAPHOSPHATE—1 cs, Monsanto Chemical Co, Liverpool

ILMENITE SAND—9,400 tons, National Lead Co, Koilthattam

IODINE—2,858 kgs, Chilean Nitrate Sales Corp, Tocopilla

IRON OXIDE—15 cks, J H Rhodes & Co, Liverpool

JABORANDI LEAVES—25 bls, Silvio Gaguine & Co, Parnaiba

LABDANUM GUM—8 cs, Dodge & Olcott Co, Barcelona

LAVENDER OIL—1 cs, Roure Dupont, Inc, Casablanca

LAVENDER SPIKE OIL—5 bbls, Dodge & Olcott Co, Barcelona

LEMONGRASS OIL—8 dms, Fritzsche Bros, Puerto Barrios

LIME FLOWERS—154 bls, Amtorg Trading Corp, Odessa

LIME JUICE—400 crtns, Maxfield & McLear, Inc, London—150 crtns, London

LITHARGE—1,400 bgs, Tampico—113 bbls, J W Hampton & Co, Antwerp

LOCUST BEAN GUM—100 bgs, Innis, Speiden & Co, Genoa

MAGNESIA CARBONATE—50 cs, Lo Curto & Funk, Liverpool

MANGANESE ORE—2,500 tons, Richard Murray & Co, Mobile, Calcutta

MANGROVE BARK—4,700 bgs, Zanzibar

MICA—60 cs, Vilco, Inc, Buenos Aires—92 cs, J F Garneau Co, Calcutta—17 cs, Cornelius & Suhr, Calcutta

MICA SCRAP—440 bgs, Fleishman, Burd & Co, Vera Cruz

MOLASSES—457 tons, W R Grace & Co, Salaverry—6,166 tons, Reconstruction Finance Corp, Banes—968 tons, Reconstruction Finance Corp, Carbarien

MUCUGE GUM—166 bgs, L A Dreyfus & Co, Bahia

NAPHTHENIC ACID—30 dms, Oil & Chemical Product, Inc, Tampico—1,023 bbls, Standard Oil Co of N J, Aruba

OITICICA OIL—163 dms, Brown Oil & Chemical Corp, Parnaiba—151 dms, L N Jackson & Co, Fortaleza—244 dms, Brown Oil & Chemical Corp, Fortaleza—55 dms, Enco Chemical Corp, Fortaleza—1,320 dms, Brazil Oiticica, Inc, Fortaleza—200 dms, Murray Oil Products Co, Fortaleza

OLIVE OIL—200 dms, Leghorn Trading Co, Casablanca—190 dms, United Olivar Co, Casablanca—75 dms, Casablanca

ORE, MIXED—2,125 bgs, J W Hampton & Co, Antofagasta

OREGANO LEAVES—221 bgs, Stickney & Poor Spice Co, Tampico—145 bgs, C T Wilson & Co, Tampico—94 bgs, Knickerbocker Mills Co, Tampico

OURICURY WAX—56 bgs, F B Ross Co, Bahia—112 bgs, Smith & Nichols, Bahia—56 bgs, Innis, Speiden & Co, Bahia—70 bgs, Strohmeyer & Arpe Co, Bahia

PALM OIL—6 dms, Aries & Co, Dakar—1,250 tons, Balfour, Guthrie & Co, Matadi

PAPAIN—14 cs, American Ferment Co, Mombassa—13 cs, Balfour, Guthrie & Co, Mombassa—22 cs, Kachurin Drug Co, Colombo—14 cs, R J Prentiss & Co, Colombo—16 cs, Biddle Sawyer Corp, Colombo—14 cs, Brown Bros-Harriman Co, Colombo

PAREIRA BRAVA ROOT—11 bls, S B Penick & Co, Santos

PEPPER—50 bgs, Casablanca—Black, 316 bgs, Banco International S A, Vera Cruz—110 bgs, C T Wilson & Co, Vera Cruz—40 bgs, C M Van Sillevoldt Inc, Vera Cruz

PERFUME, SYNTHETIC—20 cs, Polaks Frutal Works, Rotterdam

PERILLA GUM—59 cs, 133 bgs, Chicle Development Co, Barranquilla

PETROLEUM, CRUDE — 221,062 bbls, Standard Oil Co, N J, Las Piedras—59,334 bbls, Cities Service Oil Co, Tampico—87,009 bbls, Standard Oil Co, N J, Guiria—123,168 bbls, Socony Vacuum Oil Co, Puerto La Cruz—125,571 bbls, Standard Oil Co, N J, Puerto La Cruz

POPPYSEED — 200 bgs, Corn Exchange Bank, Copenhagen—2,000 bgs, Catz American Co, Rotterdam—100 bgs, Louis Furth, Inc, Rotterdam—200 bgs, Levy & Levis Co, Copenhagen—300 bgs, C M Van Sillevoldt, Rotterdam

POTASH CHLORATE—300 dms, Charles Hardy, Inc, Antwerp

POTTERS COLORS—3 cs, American Express Co, Liverpool

PYRETHRUM FLOWERS—250 bls, R J Prentiss & Co, Mombassa

QUEBRACHO EXTRACT — 16,857 bgs, International Products Corp, Buenos Aires—2,020 bgs, Carl M Loeb Rhodes & Co, Buenos Aires—10,100 bgs, Buenos Aires—7,107 bgs, River Plate Import & Export Corp, Buenos Aires

RADIUM — 3 cs, Radium Chemical Co, Antwerp

RESIN—5 cs, Albany Billiard Ball Co, London

ROOT, MEDICINAL—79 bls, Peek & Veisor, Genoa

RUE OIL—1 bbl, Dodge & Olcott Co, Barcelona

SABADILLA SEED—150 bgs, Wessel, Duval & Co, La Guaira

SAFFRON—1 cs, Schoenfeld & Sons, Leixoes

SEEDLAC—300 bgs, Charles Timm Co, Calcutta—200 bgs, Wm Zinsser & Co, Calcutta—750 bgs, Calcutta—3,150 bgs, Cornelius & Suhr, Calcutta—450 bgs, The Mantrose Corp, Calcutta—2,900 bgs, Ralli Bros, Calcutta—400 bgs, Wm Zinsser & Co, Calcutta—200 bgs, Dings & Schuster, Calcutta—500 bgs, Schlichter Jute & Cordage Co, Calcutta—350 bgs, Mac Lac Co, Calcutta—100 bgs, Gillespie-Rogers-Pyatt Co, Calcutta

SHARK LIVER OIL—27 dms, Distillation Products, Inc, Valparaiso—4 dms, Karr, Ellis & Co, Luanda

SHELLAC—2,348 bgs, Cornelius & Suhr, Calcutta—125 bgs, Schwab Bros Corp, Calcutta—500 bgs, Irving Trust Co, Calcutta—1,250 bgs, Wm Zinsser & Co, Calcutta—725 bgs, Bradshaw, Praeger & Co, Calcutta—100 bgs, Colony Import & Export Co, Calcutta—500 bgs, Schlichter Jute & Cordage Co, Calcutta—1,170 bgs, Wm Diehl & Co, Calcutta—100 bgs, C L Cameric, Calcutta—1,290 bgs, Mac Lac Co, Calcutta—200 bgs, The Mantrose Corp, Calcutta—250 bgs, Dings & Schuster, Calcutta—100 bgs, J B Day & Co, Calcutta—325 bgs, Charles Timm & Co, Calcutta—100 bgs, Calcutta

SODA SILICOFLUORIDE—250 bgs, E M Sergeant Pulp & Chemical Co, Copenhagen—

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250 bgs, American Cyanamid & Chemical Corp, Copenhagen

SULPHUR BLACK—77 bbls, Elbert & Co, Genoa

TALC—300 bgs, C B Chrystal & Co, Bordeaux—3,000 bgs, Whittaker, Clark & Daniels, Bordeaux—29 cs, Bordeaux—700 bgs, Charles Mathieu, Genoa

TAPIOCA FLOUR—1,333 bgs, American Key Products Co, Fortaleza

TEXTILE GUM—60 cks, Brown Bros-Harriman Co, Liverpool

TRISODIUM PHOSPHATE—127 bgs, Enco Chemical Corp, Antwerp

TUCUM KERNELS—7,692 bgs, E F Drew & Co, Parnaiba—4,615 bgs, General Foods Corp, Parnaiba

TURMERIC—138 bgs, M J Golombeck, Jacmel

VANILLA BEANS—7 cs, Mombassa—20 cs, McCormick & Co, Vera Cruz

VERMICULITE—504 tons, Watson, Geach & Co, Lourenco Marques

WHITING—2,200 bgs, Nicholas H Weitzner, Antwerp

ZIRCONIUM ORE—627 tons, Union Carbide & Carbon Corp, Santos

Baltimore

CHROME ORE—1,684 tons, 17 cwt, Westinghouse Electric International Corp, Lourenco Marques

MICA WASTE—500 bgs, Richmond Mica Corp, Lourenco Marques

WHITING—600 bgs, Nicholas H Weitzner, Antwerp

Boston

GLUE—100 bgs, Nicholson & Co, Rotterdam

POPPYSEED—100 bgs, Boston Brokage Co, Rotterdam

POTASH PERCHLORATE—150 dms, I M Sobin & Co, Antwerp

Norfolk

BLOOD, DRIED—4,178 bgs, H J Baker & Bro, Montevideo

KYANITE—50 tons, Cavalier Shipping Co, Colombo

MANGANESE ORE—2,000 tons, E J Lavino & Co, Vizagapatam

QUEBRACHO EXTRACT—6,000 bgs, International Products Corp, Buenos Aires—10,798 bgs, River Plate Import & Export Corp, Buenos Aires—9,971 bgs, Buenos Aires

Philadelphia

BONES—9,175 bgs, Chase National Bank, Casablanca

CASTOR OIL—100 dms, Chase National Bank, Vera Cruz

CHROME ORE—1,534 tons, 19 cwt, Frank Samuels & Co, Lourenco Marques

MANGANESE ORE—653 tons, 19 cwt, W H Muller & Co, Lourenco Marques

OURICURY WAX—56 bgs, T G Cooper & Co, Bahia

QUEBRACHO EXTRACT—600 bgs, International Products Corp, Buenos Aires

WATTLE BARK—550 bls, Bingham & Co, Beira—8,250 bls, Bank of New York, Durban—Extract, 6,002 bgs, Bank of New York, Durban

San Francisco

COPAL GUM—200 bgs, Bank of California, National Assn, Matadi

Aluminum Output For 1946 Reported

Aluminum producers, although earlier presumed to face a serious light-metal surplus, found a demand in 1946 that could not be met even by the output level of 600,000 short tons annually reached by the year end, according to the Bureau of Mines. The revival in production rate was confined to the latter part of the year; total production of primary aluminum in the United States in 1946 was 409,630 tons, a quantity which nonetheless was 2½ times greater than that turned out in any year prior to 1940.

During 1946 aluminum production increased from 46 to 92 percent of privately-operated capacity, or from 34 to 68 percent of total (including inoperative Government) capacity. Delay in resuming production on a scale commensurate with demand steamed from problems in disposal of Government plants, shortages of electric power and soda ash, and some lack of those fabricating facilities required particularly for peace-time products. The allotment of soda ash to the aluminum industry was raised in October 1946, by an order of the Civilian Production Administration, from the former level of 60 percent to 85 percent of requirements.

Vitro Mfg. Elects Strod President

A. J. Strod has been elected president of the Vitro Manufacturing Company, producer of chemicals, colors and enamels, Pittsburgh. Mr. Strod succeeds the late Eugene M. Fleck.

Freeport Sulphur Unit To Halt Manganese Output

The Freeport Sulphur Company, New York, plans to have its subsidiary, the Cuban Mining Company, convert its manganese plant into production of Portland cement, stockholders of Freeport were told at the annual meeting held in Wilmington, Del., last week. It was also revealed that the Nicaro Nickel Company, another subsidiary, had discontinued production of nickel oxide.

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Ephedra	Valerian Root
Euphorbia Herb	White Pine Bark
Foenugreek Seed	White Pine Compound
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Henbane Leaves, U.S.P.	Yerba Santa

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Botanical Drugs, Spices, Gums

Weakness of prices for condimental and flavoring botanicals was in sharp contrast with the general price stability prevailing in medicinal botanics during the past week. Far eastern condimentals were notably weak and depressed, reflecting on spot the lack of substantial trading that has resulted from the downward trend of quotations cabled from primary markets where curtailed demand for offerings has dissolved what had been an extremely strong price situation.

The strength in medicinal botanicals traced directly to the short supply in which most articles stand at the present time. It would be with great difficulty that an article actually in oversupply could be found and no difficulty at all would be encountered in finding materials the stock of which stands dangerously low. These conditions existed last week irrespective of the not very substantial or broad demand for medicinal drugs generally.

The call was light to irregular, usually covering nearby needs and permitting the future to take care of itself. Consumers seemed of the opinion that new crops abroad will be larger than a year ago and hence there is a fair chance for prices being downward in trend as stocks rise. Dealers here do not see eye to eye with that analysis of the market, recalling full well the difficulties encountered this year when it came to getting goods the quality of which would assure their release for consumption.

Collections are slowly getting underway in the domestic primary market and even this early it seemed probable that no surplus amount of labor will engage in botanical drug collection this year. Workers will probably be fewer than is actually required to get in a crop of normal size. As to prices being paid the workers, at this time they do not suggest a broad downward trend in domestic botanical drugs unless there shall be a sharp reversal of the present situation.

Balsams

Copaiba—The market was on the steady side throughout the past week. Business was sufficient to check any potential tendency toward further recession in prices and sellers were disposed to take a firmer view on the market.

Fir—If and when any Canadian balsam is obtainable, the price to be paid would be at least $28 per gallon and that quotation was considered to be the nominal market throughout the past week because of scarcity of supplies and high cost of replacements. Oregon balsam lacked change.

Peru—Inquiry was fair and sales along jobbing lines built a fair sized total volume of transactions last week. Replacement was steady.

Tolu—Prices remained firm at $3.85 per pound inside and offerings were distinctly moderate in size throughout the period. Replacement cost has not changed and was said to be a fully supporting influence on the spot market in the week under review.

Barks

Cinchona—During the past week, 1,571 bales of bark arrived here from Puerto Barrios, Guatemala. Also, 3 cases came from Rotterdam. The importance of American investment in cinchona culture in Guatemala is steadily coming to the fore and the quinine industry in this country hopes that nothing done by the United States government will finally result in the elimination of Central America as a cinchona source and the Dutch in the Netherlands East Indies restored to world domination of bark and its derivatives. There is definitely some danger of just that happening. The United States was caught short of cinchona and quinine in two world wars and the industry is determined if possible so to conduct its ventures in Central America as never again to place North and South America in the place of victims of international events involving Java and Holland.

Market Trends

Prices Advanced

Drugs

Fir balsam, Canada, $4 per gal.

Other Articles

None

Prices Reduced

Drugs

Aconite root, 5c. per lb.
Chamomile flowers, 3c. per lb.

Other Articles

Anise, Argentine, 1c. per lb.
Cardamom, bleached, bold, 5c. per lb.
medium, 5c. per lb.
decorticated, Guatemala, 5c. per lb.
India, 7c. per lb.
green, 2c. per lb.
Cassia, No. 1 Padang, 2c. per lb.
Batavia, broken, 1c. per lb.
China, selected, rolls, ½c. per lb.
Cinnamon, Ceylon, No. 2, 1c. per lb.
Clove, Madagascar, futures, ½c. per lb.
Fennel seed, Argentine, 2c. per lb.
Indian, afloat, 3c. per lb.
Grains of paradise, 1c. per lb.
Marjoram, Chilean, spot, ½c. per lb.
futures, ¼c. per lb.
Mustard seed, Montana, yellow, spot, ½c. per lb.
oriental, spot, ½c. per lb.
futures, ½c. per lb.
Paprika, Chilean, ½c. per lb.
Portuguese, ½c. per lb.
Pepper, black, spot, 6c. per lb.
futures, 6c. per lb.
Poppy seed, Argentine, 1c. per lb.
Dutch, ½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
281.5	281.7	288.2	279.4

(For Current Prices see Page 9)

Cocillana — Demand was in abeyance, such being a seasonal characteristic of the market at this time of the year. However, activity consisted on building up stocks now that plenty of material will be available when next Winter rolls around.

Beans

Tonka—Demand was steady but not expansive. It was about all that could be reasonably expected and business done contributed to the steady maintenance of spot quotations in an atmosphere devoid of competition or tendency to shade prices.

Vanilla—Limited quantities of beans continued to reach this country but in amounts that were of little help in breaking the present comparatively short supply. However, some manufacturing consumers do not show a great deal of energy in seeing to it that they will not be short of manufacturing material later on. It could well be that goods in hand in the future would be far more important than the potential ability of importers to buy cheaper some time later on.

Berries

Cubeb—Stocks are shrinking gradually and inquiries last week showed that there was little surplus material in hand for prompt delivery. Also that sellers' views spread rather more widely than is usual in the quotations on this material.

Juniper—Plentiful supplies were reported to be moving very slowly throughout the past week and attempts to interest potential importers in shipment parcels to be taken from the 1947 crop were usually unsuccessful. Buyers showed a substantial reserve.

Flowers

Chamomile—Spot business was reported done last week at 65c. to 70c. per pound, being a slightly lower market that developed under conditions rather more competitive than had prevailed recently.

Elder—The carryover will be small and special efforts seem likely to be made to increase the availability of this article in the 1947 crop. The price is thought to be high enough to stimulate suppliers into increased activity.

Malva—Small orders were the rule when any buying was done during the past week. On the whole, it was a jobbing business that came and passed without producing any change in prevailing quotations.

Saffron—Cables and letters indicated that this article was holding very steady in its Spanish primary market. Local activity was confined

For Late Market Developments, See Page 4

FOR PROMPT DELIVERY
from New Arrivals

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- ☐ Blond Psyllium Seed
- ☐ Colocynth Pulp
- ☐ Colchicum Root
- ☐ Corn Silk
- ☐ Elder Flowers
- ☐ Burdock Root
- ☐ Althea Root
- ☐ Benzoin Sumatra
- ☐ Angelica Root
- ☐ Gentian Root
- ☐ Celery Seed
- ☐ Bryonia Root
- ☐ Euphorbia Pil.

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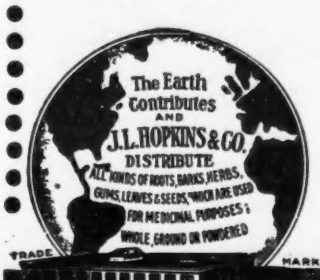
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to small lots that did nothing but confirm the market as recently quoted.

Gums

Aloe—Cables revealed prices firmly maintained in the several primary markets for this material. On spot, activity was not very great but the market retained a firm undertone throughout the period and prices were well maintained in all directions.

Arabic—Replacement cost changed little if any. Spot prices showed substantial stability and the market contained no great tendency toward competition in terms of selling prices. Stocks were of fair size on spot and could withstand expansion in consumption.

Asafetida—Several lots to come forward were purchased last week at firm, well maintained prices in the primary markets. Spot business was generally hand-to-mouth and covered, mainly, the nearby needs of a not numerous number of consumers and distributors.

Benzoin — Direct shipments from Java are not easy to obtain, notwithstanding that some sort of an agreement has been reached by the natives and the Dutch, an agreement that eventually should thaw the at-present almost frozen export trade on that island.

Herbs and Leaves

Belladonna—So scarce is this botanical, with the consequential scarcity of derived products, that belladonna extract is being imported into this country that ordinarily can supply all of its own requirements. Relief from the shortage of leaf must await on nature, and unless she be propitious this year in Europe, this country is almost certain to remain in a condition of insufficient supplies.

Digitalis — Several transactions revealed the firmness with which buyers adhere to prices quoted. No instance of successful bidding by a potential buyer was turned up.

Jaborandi — All needs were being filled on a prompt delivery basis from stocks of excellent size and available at reasonable prices when comparison is made with the prevailling replacement cost in South America. An arrival of 25 bales were reported last week.

Marjoram—Chilean was shaded to 10c. to 10½c. per pound, and a firm order in hand might be filled at 9½c. Chilean futures were shaded to 10¼c. to 10¾c.

Sage — Some late season demand from the sausage makers developed a tendency of spot prices to assume a somewhat firmer position. Competition was less the common experience of buyers than it was recently.

Miscellaneous

Areca—Imports totaled 120 bags of this article. Powder held reasonably steady, but there was a firming of undertones that was in keeping with the moderate rise in inquiries.

Cantharides—From Antwerp came two cases of this article last week and it seemed more reasonable that they might be Russian and not Chinese flies. However, Russia usually does her own selling of this article but had done very little for a long time past. Chinese flies were in excellent supply.

Ergot—The market was steadier following the recent concession in prices. Undertones were firmer after spot and replacement costs were brought into closer alignment. Portugal is saying little regarding crop prospects this year.

Grains of Paradise—Spot quotations were reduced again, making the market 31c. to 32c. per pound. Futures were down sharply to 30c. to 31c.

Kola Nuts—Supplies were plentiful at the source, and agents of shippers indicated their inability to stir much interest among the manufacturing consumers.

Lycopodium—It seems doubtful that domestic collection will get much encouragement frim prices now obtainable by dealers. No surplus of stocks was in hand, but there was an almost total lacks of orders.

Roots

Aconite—Stocks were increased to the extent of 75 bags imported here last week from Barcelona, Spain. Prices were found to be down slightly, although it may prove a temporary concession. The market was $1.15 to $1.20 per pound.

Arrow — Stocks were subject to

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April 22, 1856—Mississippi first bridged.
April 22, 1898—War on U. S., declared by Spain.
April 27, 1822—General U. S. Grant born.

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CRUDE BOTANICAL DRUGS From Forty Nations TRADE MARK

steady absorption of a sort that kept prices very firm. Replacement has not declined since the advance some time back and conditions were firm at the source.

Gentian — Although still easy in undertone, the market was no lower last week. Rather, it was steadier for the most part since spot and replacement costs were about in line. Demand was routine. Supply, excellent.

Mandrake—The carryover is insignificant and a crop of excellent size will be the aim of those featuring this article which at this time is in very firm price position.

Senega—Conditions were favorable for buying but not much was done last week. The tendency was to shade quotations both here and in the primary market. However, price declines are a common development during the Spring months in most years.

Turmeric—Spot Alleppey root was nominal at 24c. per pound but futures were made available at 20½c. to 21c. per pound. Madras and Haitian root remained firm but were also rather quiet last week.

Seeds

Anise—The sole price change came in Argentine seed, which on spot declined to 30c. to 31c. per pound. Chinese seed continued to display weakness. Mexican was reasonably steady.

Caraway — Demand was irregular and mainly for small lots that bulked sufficiently large in total sales to create firm prices.

Cardamom — The market declined further. Bleached, bold, $1.55 to $1.60; medium bold, $1.45 to $1.501; decorticated, India, $1.30 to $1.35; Guatemala, $1.28 to $1.30; green, Alleppey, $1.10 to $1.15.

Dill—The more competitive market brought sales of decorticated material at 12½c. to 13c. per pound; dewhiskered, 10¼c. to 10¾c.

Fennel—Argentine seed was shaded to 11c. to 11½c. per pound, and India seed could be had for 18c. to 18½c.

Fenugreek — Little remained available in any market. Futures in India were quoted lower at 9c. to 9½c. per pound.

Mustard — Export inquiries came from France, and some look for a repeat of the excellent trade with that country as farmers begin to offer future delivery contracts. Yellow Montana seed was reduced to 19c. to 19½c. per pound; Oriental, spot, 9¼c. to 9¾c., and futures, 7c. to 7½c.

Poppy—Argentine seed was a fraction lower at 19c. to 19½c. per pound. Dutch seed was down to 23½c. to 24c. Other varieties lacked price change.

Spices

Cassia—No. 1 Padang was reduced to 30c. to 31c. per pound for an excellent quality. Broken Batavia cassia was down to 24c. to 25c. and was in fair supply. Selected China rolls were fractionally lower at 12½c. to 13c.

Cinnamon—Ceylon No. 2 continued to become easier, and offerings last week at 38c. to 39c. per pound failed of finding ready takers.

Paprika—Chilean declined further, reaching 34c. to 35c. per pound. Choice Portuguese was fractionally cheaper at 42c. to 42½c. Spanish held unchanged.

Pepper—Spot was down sharply to 40c. to 41c. per pound. Nearby futures were reduced to 39c. to 40c., and more distiant futures were 38c. to 39c.

Markets at Other Centers

Los Angeles, April 16.—The botanical drug and spice market remained tight here this week. New crops are expected around the middle of May. Prices in this area are steady.

Marjoram—French type, 35c. per pound in dried form.

Thyme—French type, 90c. per pound in dried and clean form.

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Essential Oils, Other Aromatics

Market Trends

Prices Advanced

Peppermint oil, natural, 5c. per lb.
Phenylethylphenyl acetate, 15c. per lb.

Prices Reduced

Amyl salicylate, 7c. per lb.
Citronella oil, Ceylon, 5c. per lb.
Cubeb oil, 50c. per lb.
Isobutyl acetate, 5c. per lb.
Pimento leaf oil, 50c. per lb.
Snakeroot oil, $5 per lb.
Spearmint oil, 25c. per lb.
Turpentine oil, rectified, USP, 1c. per lb.
Wormseed oil, 25c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
207.6	208.9	212.0	217.1

(For Current Prices see Page 9)

The volume of turnover in the essential oils market was small last week, continuing the trend inaugurated several months ago. Most sellers expected no sharp upturn till the latter part of the summer, at which time retailers' stocks will require extensive replenishing. Extreme caution in buying was the keynote of the week. It was felt that a large part of purchasing power was being turned to the acquisition of formerly unobtainable materials, with a consequent neglect of items such as perfumes, of which there had been no serious previous shortage to strengthen present demands.

The tendency to reduce prices continued as drops were noted in nine items. Several of these reductions were a reaction to improved supply conditions, while others represented an attempt to render products more attractive. The anticipated increase was noted in peppermint, but the extremely short supply of this oil put it in a singular position which could not be considered indicative of market conditions in general.

Important shipments of seven oils reached New York during the week. Although the number of weekly imports represented a decline from the figures of the past few weeks, it was noted that the quantities arriving in individual shipments had increased appreciably. The floral oils in particular were arriving in bulk.

The brighter supply picture was described by the Department of Commerce thus: "Essential oil stocks during 1947 generally are expected to be more plentiful: however, it is likely that a number of oils in popular demand will remain scarce . . . Of the 44 essential oils shown separately in 1946 import statistics, only 14 declined in quantity as compared with the 1945 receipts. January, 1947, oil receipts were up four percent from those of the preceding month."

Two of the "oils in popular demand that may remain scarce" were Java citronella and patchouli. A quasi-official, quasi-business mission from the newly-established Indonesian government made it clear that the release of stocks of these oils now piled up in Cheribon warehouses was contingent upon the political situation. It was hinted strongly that two things were considered prerequisites to the reestablishment of free trade: on the part of the government, recognition of the new republic, and, conceivably, a loan; on the part of business, agreement upon long-term contracts. It was a matter of conjecture whether Indonesia's economic position was such as to permit activation of this policy, or if the need for capital would necessitate prompt release of raw materials.

The position of aromatic chemicals was in interesting contrast with the situation during the war, when everything was in extremely tight supply. With the reestablishment of normal conditions in the case of some raw materials, and the continued shortage of others, the industry found itself in a position where they could offer some products in any quantity, while others were virtually non-existent. Phenylethyl alcohol, benzyl alcohol, benzyl acetate, and musk ambrette, among others, were critically short, with no prospect for improvement till drastic changes occurred in the availability of the raw materials.

Essential Oils

Citronella — The inside price for Ceylon oil was further reduced last week to $2. Imports remained adequate as 69 drums arrived from Ceylon, but demand remained constant at a fairly low level. Thirteen drums destined for citronellal and geraniol manufacture arrived from Guatemala.

Cubeb — Despite a demand ready and eager to absorb whatever quantities could be offered, the price suffered a sharp drop last week as the lowest and highest askers announced declines of 50c. and $2.00 respectively, establishing a new range of $7.50 to $13.00. The possibility of reestablishment of a free market hinged largely upon the Javanese issue outlined above: it seemed apparent that the supply would remain exceedingly tight for some months. The price changes were more in the nature of the oil's finding its proportionate position in a fluctuating market than a response to an improving supply situation.

Geranium — Recently released figures show that of the 69,900 kilograms of oil exported from the island of Reunion during the first six months of 1946 only 500 kilograms were shipped directly to the United States. The remainder was divided between Madagascar and France in roughly a 57-42 ration. Of course Madagascar re-exported this oil. This fact, with its concomitant resale implications, was one of the chief factors in the high price of the oil during that period. Though direct importations for the first three months of 1947 were slightly greater, the situation has not improved to the point where prices for the oil in America can reflect the actual cost of production. The roundabout trade channels still largely in force will continue to keep the price high, despite the attempts of dealers to establish a more reasonable range. Eleven drums arrived from the Belgian Congo during the week.

Lavender — Inquiries were indicative of continued interest, but actual turnover was small—for the feeling persisted that the price reductions put into effect two weeks ago would continue, perhaps sharply. The flow of imports continued steady, lending support to this belief. Five barrels of spike oil from Barcelona and one drum of 38 percent ester from Casablanca comprised the week's arrivals.

Lignaloe Wood—The situation remained confused as one dealer offered stocks at $4.75 per pound—an increase of 25c. on the outside. Demand for the oil has been unpredictable, with periods of apathy inexplicably giving way to spurts of buying which might be termed frenzied. As a result dealers have often found their stocks depleted to an extent not in accordance with the real availability of the product, and the price picture has swayed accordingly. Demand last week was fairly heavy, but the price-rise appeared to be purely temporary.

Peppermint — Although the price-range showed only an increase of 5c. on the inside, some sellers advanced the oil between 20c. and 40c. The apparent discrepancy arose from the action of most dealers in making their increases within the $8.25 outside price previously established. Last week's increases were directly attributable to the reports of the damage done in Michigan by flash-floods. Although the damage to crop lands was less than had at first been feared, it was a strengthener of prices on 1946 crop oil which is in tight supply. Although there were no available figures on the acreage to be put under cultivation, it was felt that this year's crop would not be so greatly increased as to justify an appreciable price reduction in the foreseeable future.

Rose—Sellers of Bulgarian had still met with no overwhelming success in disposing of stocks. The Bulgarian need for American exchange was expected to react upon the monopolistic setup announced some weeks ago in these pages, which would naturally be extremely sensitive to national eco-

For Late Market Developments, See Page 4

nomic factors, in such a way as to render the product more attractive to American consumers.

Rue — Dealers reported a much greater call for this oil from industrial than from condiment manufacturers. The suggestion was advanced that it might be finding industrial uses other than the isolation of methyl nonyl ketone. The supply situation remained reasonably good as one barrel arrived from Barcelona.

Snakeroot—The announcement by a major dealer of a reduction of $5 per pound was a reaction to buyer apathy rather than to an easy supply picture. The use of this oil in tonics makes it, of course, subject to seasonal demand, with greater quantities used during the winter months. Thus the rather drastic price-reduction was not to be interpreted as indicative of the general tone of the essential oils market, but as an expected, localized change proper to a specific product.

Spearmint—The 25c. price reduction announced by one dealer last week was more in the nature of blandishment to buyers than a reflection of supply conditions. Indifference to the oil at its current price was so great as practically to paralyze its movement. Smaller gum manufacturers continued their trend to substitute more reasonably-priced flavors, while the major gum concerns, with their own supply channels, continued independent of the market. Pharmaceutical users also showed a marked disinclination to use the oil in view of its price. Hope was held out that, should the trend to ignore the oil continue, supplies might pile up so far as to embarrass the growers, and thus exert a favorable influence upon the market.

Turpentine—Two dealers announced price reductions of 1c. and 2c. respectively, establishing a new price-range of 37c. to 53c. This decline was merely a reflection of reductions in turpentine and naval stores in general. Demand for the oil remained strong though not spectacular, bolstering its position as one of the steadiest oils on the market.

Ylang-Ylang—The price reductions predicted in some circles some ten days ago failed to materialize as the market remained firm. It was still generally agreed that the supply of the raw material was great enough to justify an eventual decline, but the oil was not reaching these shores in sufficient quantity to precipitate the decline at present. It became apparent that one factor militating strongly for continued high prices was the difficulty of importing ylang-ylang, like oil of geranium, directly. Less than two percent of the 2,800 kilograms exported from Reunion during the first six months of 1946 was sent directly to the United States.

Aromatic Chemicals

Heliotropin — Several dealers reported their stocks of this product great enough to justify a mild selling campaign. The adoption of standards and specifications for heliotropin, as well as for terpineol, terpinyl acetate, and oil of lemongrass, at the recent annual meeting of the Essential Oils Association of the United States, was seen as giving it a favorable competitive position on the market. Demand tapered off to some extent, but there developed no serious impediment to the movement of stocks.

Phenylethylphenyl acetate — Prices were increased 15c. on the inside to establish a new price range of $5.15 to $7.50. Shortages of ethyl alcohol and phenol were responsible for the tight supply which prompted the increase. Further increases in this and allied products were in prospect as the outlook for raw materials continued dismal. Demand was eager for the very limited supplies that were available.

Vanillin—Of the three major producers, only one considered his stock adequate to meet the minimal demand; the other two were straining their resources to keep their contract customers supplied. Though the supply was tight, it was a far cry from the situation in effect several months ago, when the approval of the board of directors was almost a prerequisite to the disposition of an ounce. It was felt that, with the supply of raw materials constantly improving, the market would be completely free within a relatively short time.

Pond's Extract Elects L.V. Young President

The Pond's Extract Company, manufacturers of creams and cosmetics, New York, has announced the election of Lloyd V. Young as president of the company, to succeed Clifford M. Baker, who was appointed chairman of the board.

Mr. Young joined the Pond's Extract Company in 1923, and at the time of his appointment as president, retained simultaneously the titles of director and general manager. Mr. Baker, who has been with the company for 39 years, was elected president of the Pond's Extract Company (Delaware) in 1936.

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CPA Advisory Committees Disbanded

OPD Washington Bureau

The Civilian Production Administration is releasing from further government service members of most of the industry advisory committees which for the last year and one-half have assisted the agency in the exercise of its reconversion controls.

Committees which will remain subject to call by CPA, and which may themselves request meetings with government officials, will be those dealing with tin and tin products, antimony, rubber, cinchona bark and alkaloids, streptomycin and cordage and cordage fibers.

Calif. Hazardous Materials Labeling Rules Available

Printed copies of the regulations recently put into effect in California by the State division of industrial safety for control of hazardous substances and labeling of injurious substances are now available to industry. Copies may be obtained from the printing division, documents section, 11th and O streets, Sacramento 14, at 26 cents each.

The regulations are of major importance to the chemical industry for they may serve as a guide to other states proposing to bring their rules governing the shipping, and labeling of hazardous articles up to date. The suggestions which have been advanced from time to time by the Manufacturing Chemists Association for the labeling of hazardous substances have been adopted generally by the industrial safety division and made a part of the regulations.

Gypsum Output Data for 1946 Given

Mine output of crude gypsum in 1946 was 5,614,568 tons, according to reports to the Bureau of Mines. This figure is reminiscent of the record year 1925, when 5,679,300 tons were mined. However, even 1925 was surpassed in the total quantity of gypsum handled in the United States in 1946. Booming imports of Canadian gypsum set a record of 1,457,140 tons, making the apparent supply (production plus imports) 7,071,708 tons, a figure unsurpassed in gypsum history. The former record year for apparent supply was 1926.

Du Pont Co. Registers Preferred Shares

E. I. du Pont de Nemours & Co., Wilmington, has registered with the Securities and Exchange Commission a proposed new issue of 1,000,000 shares of preferred stock, proceeds of which will be added to general funds.

Trade Briefs

E. I. du Pont de Nemours & Co., Wilmington, Del., was owned by 87,774 stockholders as of March 31.

William G. Mather has resigned as chairman and member of the board of directors of Cleveland Cliffs Iron Company, Cleveland, and Cliffs Corporation because of ill health.

Southern Research Institute has added to its staff P. C. Edwards, organic chemist formerly with the Beech-Nut Packing Company.

M.M.& R. Midwest Head

G. F. Mehren, has been appointed general manager of the midwestern area by Magnus, Mabee & Reynard Inc., manufacturer of essential oils, New York. His headquarters will be in Chicago. Previously, Mr. Mehren was a member of the firm's midwestern sales staff, servicing accounts in Minnesota, Wisconsin, northern Illinois and part of Chicago.

Mining Claims Filing Date Warning Released

OPD Washington Bureau

Holders of mining claims on Federal public lands were warned by the Bureau of Land Management last week that they face possible loss of right to ownership of the property by July 1, unless a statement indicating their intention to retain the claim is filed before that date. Failure to file the statement would, in Continental United States, lay the claim open to relocation by a competitor, and, in Alaska, bring about forfeiture of the claim.

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Buys White & Hodges

Theodore W. Hodges has purchased the interest of his partner, Alpheus E. White, in the firm of White & Hodges, manufacturer and importer of oils and greases for the leather and textile industries, Everett, Mass. Mr. Hodges became associated with the oils firm of Frank W. Kimball & Co. in 1914 and, in partnership with Mr. White, carried on the company under the present designation when Mr. Kimball died in 1920.

Insecticide Bill

—Continued from page 5

of helping to defray administrative costs and discourage the registration of products which were not intended to be marketed. As the bill now stands, it was pointed out, there is no method by which inactive registrations can be discarded.

Industry Opposition

Industry opposed the suggestions, however, on the grounds that the insecticide industry would be singled out to defray the cost of enforcement of a Federal law which is not imposed on any other regulated industry. They suggested also, as an alternative to reregistration, an amendment requiring manufacturers to report periodically as to whether their products are still on the market. If the product is no longer being sold or if the manufacturer fails to report, the department could automatically terminate registration.

The third amendment objected to by industry was a proposal to impose a one-year imprisonment penalty as well as a fine of $1,000 for violations of Section 3a(1) of the bill covering interstatement shipments of economic poisons which have not been registered or for which claims are made or directions for its use differs in substance from the representations made in connection with its registration. The industry thought such an amendment was too harsh and asked that only the fine be imposed.

Warren Watson, secretary of the Manufacturing Chemists Association, urged a change in the bill to give the Secretary of Agriculture specific authority to accept the use of suitable common chemical names to be used in the ingredients statements of insecticides and fungicides in place of the long and complex chemical names which otherwise would be required. His suggestion was approved by the department spokesmen and other industry representatives.

Chemical Terms Impracticable

He pointed out that this is a problem that is becoming increasingly serious from the standpoint of chemical manufacturers. The use of the complete correct chemical names to properly describe the ingredients would be impracticable from the standpoint of label preparation and an absurdity from the practical viewpoint, since the chemical name would be understandable only to highly trained organic chemists, he stated.

He cited piperonyl cyclohexenone as a typical example of what would be required in the ingredient statement. To meet the requirements of the bill, he said, the insecticide label would require a statement of the two major compounds which are present, and which are:—

1. alkyl-5-(3, 4 methylenedioxy)-phenyl-3-carbethoxy-2-cyclohexen (5-one-3).

2. .alkyl5-(3, 4 methylenedioxy)-phenyl-3-cyclohexen-5-one.

Metal Cans Shipments Show 10 Percent Drop

Total shipments of metal cans during February, 1947, showed a 10 percent drop, according to the Bureau of the Census. These figures are based on metal can shipments expressed in terms of the weights of steel consumed in the manufacture of the cans shipped. In the month of February metal can shipments on this basis amounted to 157,758 tons, as compared with the 174,890 tons shipped during January.

D&S Chemical Corp. Formed in New York

The D. & S. Chemical Corporation has been organized in New York for the purpose of exporting chemicals, drugs, pharmaceuticals and spices. Offices are at 300 Fourth avenue and the telephone number is ALgonquin 4-7032. Howard S. Silbey, formerly import-export manager for Kachurin Drug Company, is president of the new concern, and E. W. Davidson is secretary-treasurer.

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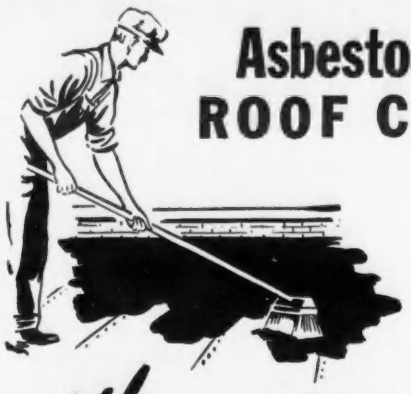

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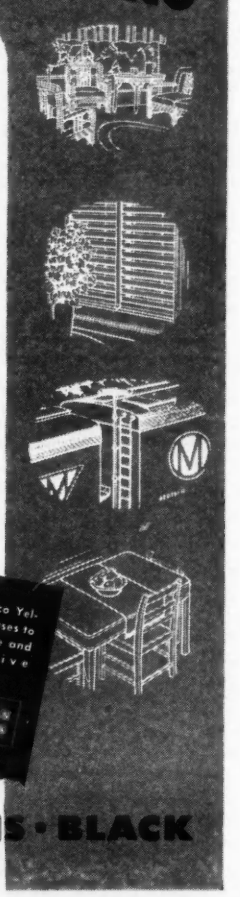

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Protective Coatings Materials

Raw material shortages that have plagued the market for over a year were very much in evidence again last week. However, the truth remained that if these were normal times, present supplies of raw materials would be more than adequate to care for requirements. Instead, the over-all accelerated demand, caused by the booming construction of new homes, the high production of mechanical appliances (automobiles, refrigerators, etc.), and the necessity of painting homes and business places that were neglected during the war has proved to be more than enough to drain heavy stocks produced daily. Not to be overlooked, however, was the increasing tendency on the part of consumers to shy away from some of the materials that are priced much higher because of increased labor and production costs. Substitute materials, although not as good as those already proved, were getting much attention because of their generally lower prices.

The general price structure in the market showed no drastic change last week with the revisions that occurred confined to markets that have been weak for some time and were attempting to return to normal. Domestic and foreign casein was devoid of interest with a resulting one cent decline in domestic prices having been effected. Gum turpentine was still a question mark, with few people willing to forecast whether or not good demand would return when the Spring crop is brought in. Gum prices on the Savannah market were advanced 2¼c. per gallon last week. week.

Market Trends

Prices Advanced

Turpentine, gum, 2¼c. per gal.

Prices Reduced

Casein, dom., lactic, 1c. per lb.
Rosin, gum, grades B through WG, 15c. to 75c. per drum.

Comparative Price Indexes

(100=August 1. 1914)

Last week.	Prev. week.	Last month.	Last year.
179.8	179.8	175.0	140.2

(For Current Prices see Page 9)

Metallic Lead and Zinc

Lead—The price advances in lead effected by the British government at the beginning of the month have not as yet been reflected in our domestic prices. The opinion in Great Britain was that the price advances would have been less drastic if the Ministry had decontrolled metals and permitted resumption of trading on the London market. American producers state that there will probably be no price change in American markets since this was the price at which England sells lead to its citizens and not the purchase price on foreign markets.

Domestic prices remained unchanged with the common grade being quoted at 15c. per pound in New York and between 14.80c. and 14.85c. per pound in St. Louis.

Zinc—Increased uses of zinc in many new products and industries was causing a heavy strain on daily production. Output remained very high and was regarded as greater than normal times but was not able to satisfy the long list of eager consumers. Production of zinc oxide was hampered by the lack of special zinc ores. Producers attempted to share what stocks were available on a fair basis to regular customers.

Prices remained unchanged and the prime western grade was being quoted at 11c. per pound in New York and 10.50c. per pound in East St. Louis.

Pigments

Litharge—Although present production of this material was definitely higher than that before the war, shortages continued to exist because of the definite above normal demand. Production capacities have been increased but producers were faced with the difficult task of procuring greatly increased requirements of lead supplies. Shipments were directed mainly against existing contract orders.

White Lead—Increased facilities for the production of this pigment were in the making but the chief factor contributing to the present extremely tight supply picture continued to be the very low availability of lead supplies. Demand was high and greatly above that which was considered normal. Deliveries were usually reserved to regular customers.

Zinc Oxide—The scarcity of premium zinc ores required for the production of this material continued to hold back the higher production that was required to meet the present heavy demand. In the same manner, the general lead shortage prohibited any increase in the output of leaded zinc oxides. Prices continued firm and unchanged at previous levels.

Dry Colors

Bone Black—Production of all grades of bone black during February totaled 928 tons, a decrease of 95 tons from the previous month's total and 35 tons less than the total for the corresponding period in 1946. according to the Bureau of Census. Stocks held at the end of February amounted to 1,463 tons, compared with the figure of 1,565 tons held at the end of January.

Carbon Black—The exceptionally heavy demand for this material from the rubber and protective coatings industries continued unchanged and stocks were depleted to the extent that deliveries had to be made on daily production materials. Production continued at higher than normal rates but could not compete with the demand. Some quarters were of the opinion that carbon black produced by the furnace method would soon surpass that of channel production since the yield per 1,000 cubic feet is from two to five times greater than channel production, depending on the size of the particles.

Chrome Colors—The firm condition of the market remained unchanged last week as producers continued to seek greater supplies of lead and bichromates in order to obtain production necessary to meet the good demand. Call for medium and dark shades was good but shipments were running behind schedule due to the critical supply situation.

Driers and Flatteners

Linoleates—In moderate demand, suppliers of this product were not concerned over shortages as present production continued to afford adequate supplies. Call for cobalt and manganese linoleates was holding up well and shipments were maintained on a prompt schedule.

Napthenates—Some producers were being caught in a tight supply situation as the scarcity of napthenic acid began to be felt. However, others had previously stocked up on large quantities of this raw material when it was available to a greater extent and were encountering no trouble as a result of their high inventories. A slight de-

Paint, Varnish, Lacquer Sales: February

The value of paint, varnish, lacquer and fillers in February, 1947, as reported by 680 establishments to the Bureau of Census, was $81,289,102. Details of sales reported by these establishments, with comparative data for 1946 and 1945, follow:—

	Total sales reported by 680 establishments.	Classified sales reported by 580 establishments—Trade-sales of paint, varnish, and lacquer.	Industrial sales—Total.	Industrial sales—Paint and varnish.	Industrial sales—Lacquer.	Unclassified sales reported by 100 establishments.
1947—Feb.	$81,289,102	$42,965,658	$32,405,342	$22,754,448	$7,204,593	$8,364,403
Total, 2 mos..	164,589,292	84,697,975	64,816,559	47,107,676	15,262,582	17,521,059
1946—Feb.	54,573,247	31,248,242	17,643,102	13,076,030	4,567,072	5,601,903
Total, 2 mos..	111,148,052	61,709,041	37,623,908	28,069,805	9,564,103	11,815,103
1945—Feb.	51,487,714	24,074,516	22,430,042	16,765,453	5,664,587	4,983,156
Total, 2 mos..	105,137,216	49,269,809	45,486,598	34,464,954	11,021,644	10,380,810

For Late Market Developments, See Page 4

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Plastic, Coldwater Paint Sales: February

Sales of plastic-texture paints, coldwater paints and calcimines for February, 1947, as reported to the Bureau of Census by 38 identical manufacturers, accounting for approximately 87 percent of the total value of sales in these materials, as compared with those for February, 1946:—

Plastic-Texture Water Paints

	Pounds	Value
*Total	2,605,343	$227,380

* Includes paste and dry powder plastic-texture water paints which cannot be shown separately without disclosing the operations of individual companies.

Coldwater Paints

	Pounds	Value
Exterior, lime or cement-bound	2,776,132	$247,421
casein-bound	297,668	23,553
Interior, casein-bound, paste or semi-paste form	*225,048	332,554
Dry-powder form	718,275	69,587
glue-bound	176,918	10,205

* Gallons.

Calcimines

	Pounds	Value
Hotwater	781,091	$43,161
Coldwater	913,352	47,877

Sales of these products for February, as compared with those for the corresponding month of last year, were as follows:—

	February 1947	February 1946
Plastic paints.....lbs.	2,605,343	1,278,361
value.	$227,380	$87,008
Coldwater paints.value.	$683,320	$502,277
Calcimines .....lbs.	1,694,443	2,151,044
value.	$91,038	$100,049

crease in demand for these materials was reported as consumers were carefully watching the present high price structure in the hope that a break might be forthcoming. Quotations remained firm and unchanged during the period under review.

Stearates—The extreme scarcity of these materials continued unabated last week as the higher output necessary to cover the present needs of the paint industry was curtailed by the very tight stearic acid picture. Call was good but the high prices currently in effect were, said to be discouraging some consumers. The tightness of the situation resulted in the allocation of what supplies were available to regular contract customers. No price changes were announced last week.

Fillers and Extenders

Bentonite — Suppliers were concerned in this section of the market as this product was the object of avid interest and demand. However, supplies were stated to be in a very tight position because of the heavy call, and shipments were substantially behind schedule.

Diatomaceous Earth—Importations of this material have been very scarce during the post-war period with the few imports that have been reported, arriving from Mexico. The Algerian sources of supply have not been fully reestablished as yet. Arrivals during the past week amounted to a total of 1,164 bags from Mexico.

Graphite—Good interest continued to be shown in this market and supplies moved at a fairly rapid pace. It was reported that 750 bags of this material arrived in home ports from Ceylon during the period under review.

Gypsum—Spirited trading was witnessed last week as suppliers were capable of offering formidable stocks of this material as a result of the excellent supplies coming out of the Nova Scotian mines. Consumers were in the market for large quantities with call from the construction industries for gypsum board very good. Imports reported to have been received during the period under review amounted to 4,618 tons from Nova Scotia.

Talc—Steady improvement in the building of stocks in this market has resulted in the formation of an adequate supply situation, capable of caring for both the export and domestic demand. Arrivals reported to have been received in home ports during the period under review totaled 4,600 bags from France and Italy.

Lacquer Materials

Butyl Acetate—Production of this material during last year and the first quarter of this year was stated to be greater than that of normal times, but the excellent interest and demand that has been witnessed over a prolonged period of time readily absorbed daily production and left few stocks for surplus. Prices were holding firm.

Dibutyl Sebecate—The very tight supply situation that had resulted in some producers withdrawing this product from the production list was reported to be improving last week. Production of this material by one producer was started up again and supplies were available for distribution. However, higher labor costs and unstable raw material costs resulted in fluctuating quotations for the finished product, with a range of 90c. to $1 per pound being quoted. Nonessential users were not, as a rule, bidding for this material at the present prices.

Dimethyl Sebecate—Moderate interest in this material caused a fair amount of trading to be accomplished last week. Supplies were stated to be available.

Ethyl Acetate—Prices were firming again following the advances of the previous week for natural fermentation materials. However, tightness

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continued to be felt as daily production was readily absorbed by eager consumers.

Varnish Gums

Gums—Consumer resistance to the high prices being asked for all natural gums remained the chief impediment to the complete recovery of this market. Materials were becoming more abundant at their source, but buyers in the United States were reluctant to pay the high prices being asked, except for some of the more select grades. Consequently, most offerings were going to foreign countries who were willing to meet the present quotations. Imports reported to have arrived in American ports during the past week amounted to 1,943 bags of copal from the Belgian Congo.

Shellac—Expected advances in shellac varnish due to increased alcohol costs have not materialized. Instead, a decline of 3c. per pound for bone-dry shellac was effected two weeks ago. Last week the market was reported to be firming, following the previous price reductions. Trading was moderate as the tightness of the supply situation caused by erratic conditions in India began to be felt. The Calcutta market was holding up firm but strikes, railroad car shortages and congested river conditions were hampering prompt shipments. Latest reports on the Bysacki crop indicate that it will be small and was expected to be only 50 to 60 percent of last year's crop. It had been expected that a large Bysacki crop would result in reduced prices. However, one importer reported that spot futures for May were up three rupees. This would indicate an expected small crop.

Surprise to the shellac industry here last week was the arrival of the largest imports during the post-war period. One ship arrived carrying the bulk of the materials. Total imports amounted to:—Buttonlac, 800 bags from Calcutta; garnetlac, 325 bags from England and Calcutta; seedlac, 9,750 bags from Calcutta; shellac, 9,083 bags from Calcutta.

Naval Stores

Rosin—The first break in the market since February 19 occurred late last week when a general downward revision of prices was effected. Reductions ranged from a low of 15c. per drum for grade E to a high of 75c. per drum for grade F. According to trade officials, the direct cause of the break was the contracting for delivery of materials at a future date. A very large amount of rosin was reported to be sold for late April delivery at a price that was approximately 50c. below that of present market prices. As a result, it was necessary to bring the present market quotations down by this amount in order to purchase supplies at a price commensurate with the selling figure and not incur a financial loss. Warm weather has also given strength to the market as supplies began to come in. Up to this time, production has been very limited and stocks were extremely scarce. This year's carry-over stocks were reported to be among the smallest in naval stores history. Interest has picked up and rosin for export was stated to be increasing in demand.

Savannah, April 17.—Following is a record of the rosin market for the week:—

	Price per unit—Low of range quoted				
	Fri.	Mon.	Tues.	Wed.	Thurs.
B	$8.25	$8.25	$8.25	$8.25	$8.00
D	8.60	8.60	8.60	8.60	8.00
E	8.90	8.90	8.90	8.90	8.75
F	9.65	9.65	9.65	9.65	8.90
G	9.65	9.65	9.65	9.65	9.00
H	9.65	9.65	9.65	9.65	9.00
I	9.65	9.65	9.65	9.65	9.00
K	9.65	9.65	9.65	9.65	9.10
M	9.65	9.65	9.65	9.65	9.10
N	9.65	9.65	9.65	9.65	9.25
WG	9.65	9.65	9.65	9.65	9.25
WW	9.65	9.65	9.65	9.65	9.65
X	9.65	9.65	9.65	9.65	9.65
	Drums				
Sales	...	...	...	...	384
Receipts	8	...	53	14	47
Shipments	...	...	...	...	...
Stocks	616	640	693	707	754

Turpentine—Demand for gum turpentine remained very poor and there was little positive indication that it would improve with Spring production. Although prices have greatly receded from those quoted immediately following decontrol, it was anyone's guess if former turpentine users would come back into the fold. Consumers seemed to favor prompt purchase and delivery of materials rather than to build up large inventories at the present prices. One bright note in the picture was the long-awaited introduction of Spring in the South. The Spring crop commenced to be brought in but it was not expected that any direct result would be felt until the latter part of May. Prices in the Savannah market fluctuated during the week with a ¼c. decline being immediately followed by increases totaling 2¼c. per gallon.

Savannah, April 17.—Following is a record of the turpentine market for the week:—

	Bulk gallons—Cents.	Sales.	Barrels—Receipts.	Shipments.	On hand.
Friday	85¼	...	63	4	986
Monday	85¼	...	64	124	925
Tuesday	85	167	160	145	940
Wednesday	86	162	7	...	947
Thursday	87½	22,700	61	158	850

Glues and Binders

Casein—The domestic and foreign markets remained essentially unchanged last week with very little trading having been accomplished. Buyers showed almost no interest in this product with the result that prices continued to fall. Consumers continued to use their present inventories to care for their needs and were very reluctant to purchase any further

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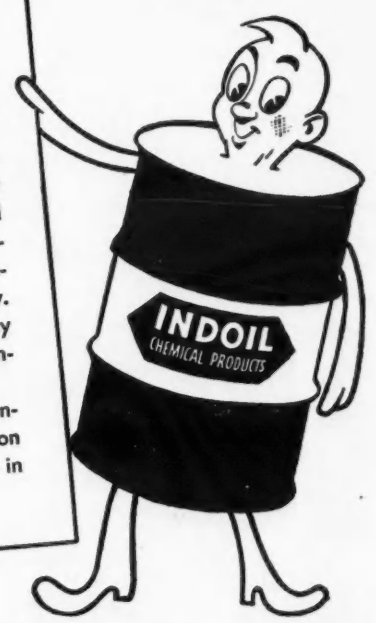

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stocks in view of the unstable market conditions. In the meantime, domestic production continued in its surge to unprecedented heights with an appreciable surplus of materials available. February production of dry casein in the United States amounted to 3,035,000 pounds compared with the total of 515,000 pounds during the corresponding period of 1946, representing an increase of 489 percent. For the second consecutive week, no imports of Argentine casein were reported, probably due to the fact that such casein was inferior to domestic materials and because Argentine prices remained higher.

Domestic prices slumped another cent per pound last week with lactic being quoted between 27c. and 28c. per pound. A stable price for rennet materials could not be quoted since practically no trading was being accomplished. Although the official price for Argentine materials was 25c. per pound, f.o.b., Buenos Aires, rumors of a decline to 22c. per pound continue to be heard.

Glue—Production of glue materials continued to improve, but the heavy demand, which was reported in some quarters to be improving, made short work of available materials and the supply situation remained critical. High-priced imports were sporadic and did little to help alleviate the present shortage. Arrivals of 100 bags of glue in home ports from Holland were reported during the period under review.

Ziegler & Co. Plant Headed by Hillers

G. S. Zeigler & Co., manufacturer of paint materials, New York, has appointed Carl E. Hillers supervisor of its New Market, N. J., plant, which is nearing completion. He recently was chief chemist of the Tile-Tex Company and before that was associated with the research divisions of Flintkote Company, Sloane-Blabon Company, and Certain-Teed Products Corporation. The company also announced that Philip Dexheimer had been added to the staff to assist Mr. Hillers.

N.Y. Paint Club Sets New Officers Slate

Dr. Gustave Klinkenstein, of Maas & Waldstein Company, Newark, N. J., has been nominated for president of the New York Paint, Varnish and Lacquer Association. Paul S. Kennedy, of Interchemical Corporation's Murphy Paint division, has been named for vice-president, and Morton M. Gruber, of U. S. Industrial Chemicals, Inc., New York, has been nominated for secretary. Hendrick E. Hendrickson, of S. Winterbourne & Co., New York, has been named for another term as treasurer.

Muralo Co. Names A.J. King Manager

The Muralo Company, paint manufacturer, New York, has appointed Alfred J. King, jr., general manager, and Chester N. Braham assistant manager. Mr. King succeeds Walter M. Clark, who resigned to become associated with the National Paint, Varnish and Lacquer Association.

Mr. King, formerly treasurer of the company, is also a director. Before the war he was with the United States Gypsum Company. Mr. Braham was assistant to the manager and prior to that served as office manager.

Trade Briefs

Lion Oil Company stockholders reelected all directors at the recent annual meeting.

U. S. Gypsum Company, Chicago, plans construction of a new plant at Sigurd, Utah, at a cost of $1,250,000.

Frank Morgan, vice-president of Richfield Oil Corporation, is in Australia making geological surveys of that continent and Papua.

Pennsylvania Salt Manufacturing Company's Natrona plant has installed new facilities for the manufacture of corrosion proof cements and paints, so as to double former capacity.

Monsanto Chemical Company, St. Louis, Mo., has developed a chemical coating which the company claims deepens the blue of a blueprint and increases legibility of the paper. The product is a silica acquasol known as "Mertone WB-2."

D.H. Litter Surveys Tung Oil Situation

Conditions in China, and the current situation in regard to tung oil were described last week by D. H. Litter, of the D. H. Litter Company, New York, who recently returned from an extensive tour of that country and various Pacfic islands.

Mr. Litter undertook his tour of the Far East in an effort to see what could be done to stabilize the price of tung oil and prevent the present-day erratic fluctuations in the market. He had several conferences with high government officials and industry leaders, but the outcome of his efforts will not be apparent until some time in the future.

The uncertain trade conditions and chaotic monetary situation were cited by Mr. Litter as prime factors to be considered in any attempt to forecast future price trends for tung oil. He was, however, fairly optimistic regarding the supply situation.

"The United States imported about 50,000 tons of tung oil in 1946," he said, "and indications are that it will receive at least that amount in 1947. There is a possibility that this figure may reach 70,000 tons."

Mr. Litter stated that England and the Continent are outbidding the United States for tung oil, but that this is not liable to affect American supplies because European users will take only about 15 to 20 percent of the offerings.

Flying from San Francisco to Shanghai and Hong Kong on his six weeks' trip, Mr. Litter made stopovers at Honolulu, Midway, Wake, Guam, Manila, Okinawa, Kwajelein and Johnston Island.

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Petroleum Derivatives

Heavy demand for all types of petroleum products, countered by continuing shortages of supplies, was the outstanding feature of this market for the week. Slight easing in the supply situation in some sectors was more than offset by increased demand and tightening of supplies in others.

Transportation difficulties were complicating the situation in many parts of the market and the shortage of high-pressure tankcars and storage tanks was being particularly felt in the lighter fractions section. Fuel oil shortages in the midwest were somewhat eased by rail shipments from New York, but supplies remained very tight in most areas and in some quarters grave doubts were expressed as to the industry's ability to meet demands next season.

Estimates of gasoline consumption this summer have been generally increased and the foreign demand continues to be extremely heavy. In some quarters it was felt that the supplies of solvents and diluents will become even tighter as the summer gasoline demand grows heavier. Lighter fractions continued to be in good demand and supply during the week, with some sellers reporting representative quantities of butane on hand and only propane remaining very tight. Waxes and petrolatums remained unchanged, with waxes being in particularly short supply.

In view of the soaring demand for all petroleum products, the Bureau of Mines last week raised its forecast of 1947 demand for all oils to 2,063,000 barrels, 6 percent above the record-breaking 1946 level, and 2 percent above its previous forecast for this year. In releasing its new estimate, the bureau warned that crude production and refinery operation will have to be maintained at close to capacity levels in order to meet the demand.

Market Trends

Prices Advanced

None

Prices Reduced

None

(For Current Prices see Page 9)

Solvents and Diluents

Aromatic Solvents—Brisk business continued to feature this section of the market, with some producers reporting a serious tightening up of supplies, although current demands are being met. Consumer interest remained high and the supplies were generally adequate to meet increasingly strong demands. Petroleum toluol and xylol also enjoyed considerable consumer interest and shipments of these materials were still on the upgrade. Prices remained unchanged during the period under review.

Lacquer Diluents — Increasingly heavy consumer interest in this commodity was shown during the week from the protective coatings industry as the Spring painting season got into full swing, with calls for the benzol and toluol types also gaining rapidly. Large quantities were reported to be available for current shipment, and movement of materials was generally declared to be satisfactory.

Mineral Spirits — Good production of this material provided adequate supplies to meet the increasing demands of the paint industry. The high rate of buyer interest continued unabated and the entire market experienced considerable trading throughout the week. Offerings from producers remained substantial and were promptly bought up at prices which have remained unchanged for some time.

Rubber Solvent—Heavy production in the automobile and tire industry continued to exert a severe strain on supplies of this product, although most producers are still able to make current deliveries. With fine weather bringing on the beginning of the seasonal summer demand for gasoline, future supplies of rubber solvent become increasingly hard to estimate. It is expected that reduction of the amount of materials available for production of this solvent may cause further delays in shipping in the near future, but for the present deliveries are being kept on a par with past weeks. No price fluctuations were reported during the period under review.

Stoddard Solvent—General tightening-up of the solvents and diluents market was reflected somewhat in this sector during the week, but it is far from reaching a critical point and is not expected to do so. Conditions remained good, with inquiries and demands ranging from moderate to good and sufficient supplies on hand to maintain a satisfactory movement of materials. The Group 3 quotation on this solvent in tankcar quantities was 8⅜c. per gallon.

V. M. & P. Naphtha—Continuing heavy demand in this section of the market, together with the increasing requirements of the protective coatings industry, kept up the brisk trading that has been going on during past weeks. Production is still at peak levels and adequate supplies are on hand to meet current demands, but stocks are reported to be growing dangerously short in some sectors.

Markets at Other Centers

Chicago.—Interest in these materials continued good, with market aspects generally unchanged.

Aromatic Solvents—Interest good, market holding.

Cleaners' Naphtha—Call steady, steady prices.

Lacquer Diluent—Buying active, firm quotations.

Mineral Spirits — Movement brisk, steady market.

Rubber Solvent — Trade good, unchanged prices.

Stoddard Solvent—Interest continues, no price change.

V. M. & P. Naphtha—Business good, quotations stable.

Los Angeles. — Call for solvents and diluents in this area remained good. Cleaners' naphtha and lacquer diluents were moving steadily.

Lighter Fractions

Butane—Some easing of the tight supply situation of this hydrocarbon was experienced during the week, with some quarters of the trade reporting good supplies available for shipment. The persistent shortage of high-pressure tankcars and storage facilities continued to hamper the movement of materials, and no improvement in transportation facilities was expected in the near future. Production continued to be well above normal but high buyer interest and excellent industrial call absorbed stocks almost as quickly as they were produced. Prices remained at former levels, with the New York harbor quotation at 6¼c. per gallon in tankcars.

Heptane—Trading was lively, with interest by the rubber and fats industries bringing about a particularly good call for this material. Transportation difficulties here again have had the effect of somewhat slowing deliveries, but materials were reported to be in good supply and well able to care for present demands.

Hexane—Good supplies were reported to be on hand, even though increased demand was being felt from the rubber and fat industries. As in other sections of the market, some transportation difficulties were being experienced, but movement of materials was generally well maintained in view of the call for larger shipments.

Propane—Serious shortages of high-pressure tankcars and bottles, coupled with general transportation difficulties, have conspired to make supplies of this petroleum gas extremely short. Continuing increases in domestic use being brought on by the increasing availability of domestic appliances have brought heavy demands on the industry. At the same time, industrial call continued to be very heavy and producers are exerting every effort to avoid piling up a backlog of orders. Movement of materials, where containers were available, was reported to be satisfactory and prices remained firm, with the Group 3 quotation being 3½c. per gallon in tankcar lots.

Markets at Other Centers

Chicago.—Buyers were in the market extensively for these materials, and prices were holding firm at recently improved levels.

Butane—Call good, steady prices.

Heptane—Interest brisk, market holding.

Hexane—Buying active without quotation change.

Octanes — Business fair, no price change.

Pentanes—Orders good, market holding.

Propane—Business good, stable quotations.

Los Angeles.—Buying interest in the liquefied petroleum gases was being well maintained. Supplies were good.

Petrolatums and Waxes

Microcrystalline—With all producing plants operating at peak levels, supplies of these waxes continued to lag behind the tremendously heavy demands. Industrial sources continued in their attempt to secure additional stocks, but production capacities are not capable of supplying all requirements. Principal movement of material was reported to be against standing orders. Prices continued firm at previous levels.

Paraffin—General business continued to be sporadic, with shortages causing backlogs of orders to develop in many channels. Although production of these waxes is at peak capacity, heavy calls from the food packaging industry continued to stretch available supplies to what was termed a critical point. Materials that were available were reported to be moving briskly, with suppliers endeavoring to reduce backlogs wherever possible. Prevailing prices remained steady during this period.

Petrolatums — Heavy production continues to keep supplies almost on a par with the heavy demands. Shortages of steel drums and generally inadequate transportation facilities continued to hamper deliveries, with very few prospects in sight for greater supplies of containers in the near future. Continued interest was evidenced in petrolatums for export, and some producers reported slight increases in supplies available for export.

White Mineral Oils—Some difficulty was being experienced in this section of the market in making current deliveries because of the necessity for fulfilling contracts placed some time ago. The supply situation remained critical, but some producers reported a slackening of inquiries.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended April 5 totaled 230,401,000 barrels, according to the Bureau of Mines. Compared with the total of 227,529,000 barrels for the preceding week, this represents an increase of 2,872,000 barrels, comprising an increase of 2,714,000 barrels in stocks of domestic crude and an increase of 158,000 barrels in stocks of foreign crude. Heavy crude-oil stocks in California, not included in the gasoline-bearing stocks, totaled 5,880,000 barrels, a decrease of 32,000 barrels.

For Late Market Developments, See Page 4

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TORONTO, CANADA

Oils, Fats and Waxes

Price declines continued to feature the oils and fats market last week. Lack of buying interest combined with resale oil pressing on the market brought out further unsettlement. Buyers displayed little interest and only at still lower levels. Tallow and grease declined 3 cents per pound early in the week, and the market appeared easy at the lower levels. Soapmakers purchased moderate quantities at the decline, but showed little interest later. Lower prices for tallow and grease resulted in the reduction in red oil of 3 cents per pound, stearic acid 1 cent, grease oil, 5 cents and oleo oil 4 cents. Edible oils were easier, corn, cottonseed and peanut oils were off 2 cents per pound for crude and refined grades. Coconut oil was inactive and weak, declining 1 cent per pound. Copra was easier and nominal. Soybean oil futures were off about 2 cents per pound and prompt and nearby deliveries 1 cent. Lard and hogs were lower. Interest in drying oils also were inactive. Tung oil was easier and reduced 1 cent per pound. Demand for linseed oil was dull and market was merely nominal. Offerings were slightly freer, with consumers showing little interest. Dehydrated castor oil was quiet, and unchanged, while other grades of castor oil were reduced ½ cent per pound.

Reports from China stated that the National Price Commission has decided to limit exports of edible oils and oilseeds in order to balance the supply and demand for these products, which are among China's most exportable commodities.

Cottonseed Oil

Sharp declines were registered in the bleachable cottonseed oil market on the Produce Exchange last week. Selling pressure was fairly active and short sales were indicated for nearby deliveries. May sold at 32c. compared with the recent high of 41¼c., July sold at 30c. against the high of 39¾c. and September reached 24½c. compared with the high mark of 35.60c.

Crude cottonseed oil was weaker, with light sales at 32c. per pound, tankcars, mills, a decline of 2c. per pound. Additional offers at this figure did not interest buyers, who preferred to mark time.

Memphis.—Crude cottonseed oil was dull. Prices were nominal at about 33c. per pound, tankcars, f.o.b. mills. Interest in meal was slow, though inquiry was slightly better last few days. Meal 41 percent sold at $68 per ton, Memphis, for prompt shipment.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended Thursday, April 17, follow:—

	Sales	Cents per pound—High	Low	Close
May	14	35	32	32 bid
July	22	34	30	30@31
September	6	25	24½	24@24¾
October	26	23	22¼	22⅛
December	19	21½	19.35	19½@20¼
January	1	19¾	19¾	18¾@20
March	..	..	..	18¾@20

Total sales, 88 contracts.
Crude oil was nominal at 32@33c. per pound, tankcars, f.o.b. mills.

Market Trends

Prices Advanced

None

Prices Reduced

Carnauba wax, 1c. to 3c. per lb.
Castor oil, No. 3, ½c. per lb.
Coconut oil, 1c. per lb.
Copra, $9 per ton.
Corn oil, 2c. per lb.
Cottonseed oil, 2c. per lb.
Greases, 3c. per lb.
Grease oil, 5c. per lb.
Lard, 3c. per lb.
Oleo oil, 4c. per lb.
Peanut oil, 2c. per lb.
Red oil, 3c. per lb.
Soybean oil, crude, 1c. to 2c. per lb.
Ref. alkali, 2c. per lb.
clarified, 2c. per lb.
winterized, 1c. per lb.
Stearic acid, 1c. per lb.
Tallow, 3c. per lb.
Tung oil, 1c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
270.3	308.9	323.3	193.5

(For Current Prices see Page 9)

Linseed Oil

Quietness prevailed in this market last week. Consumers were practically out of the market and trading was confined to small lots in drums. Offerings of oil were freer and prices were entirely nominal at 38c. to 38½c. per pound, tankcars, according to delivery.

Minneapolis.—More resale oil appeared on the market during the week. Prices were still nominal and quoted anywhere from 36c. to 38c. a pound in Zone 1.

Shipments of linseed oil, in pounds, were as follows:—

	1946-47	1945-46
This week	6,600,000	5,340,000
Since Sept. 1	177,200,000	203,314,000

Flaxseed—Active inquiry noted for seed. Trading light owing to lack of offers.

Minneapolis.—Crushers were taking all seed available, which was practically nil, at $7.50 spot and to arrive. Some seed was released at country points by a greater influx of boxcars and some was held above the record $8.50 paid this Winter. Crop news was somewhat discouraging as late snows and early April rains kept topsoil in such a condition that it was impossible for farmers to get in their fields.

Bushels—	Receipts— 1946-47	1945-46	Shipments— 1946-47	1945-46
This week	136,000	90,000	74,800	70,800
Since Sept. 1	11,245,900	17,873,500	3,579,800	3,564,800

Other Vegetable Oils

Castor, Dehydrated—Prices for dehydrated oil were unchanged while other grades were reduced ½c. per pound last week. No. 3 declined to 31¾c. per pound, tankcars, and to 32¾c., drums, carlots. Interest in dehydrated oil was less active, but small stocks were held at former levels.

Coconut—Demand was inactive and resale crude oil was reported sold at 20c. per pound, tankcars, Pacific Coast, a decline of 1c. Inquiry was slow and the market was unsteady and entirely nominal. Cochin grade was also lower and nominal at 24c. per pound, same basis.

Copra—This market was easier and prices declined $9 per ton. Buying interest was conspicuous by its absence. Copra was quoted at $225 per short ton, c.i.f. Pacific coast and $231 Atlantic ports.

Corn—With buying interest lacking,

Cottonseed Crush Smaller: March

Cottonseed received and crushed and production of cottonseed products from August 1 through March 31, 1947, as compiled by Bureau of the Census, follows:—

Cottonseed

	Tons— 1946-47	1945-46
Receipts	[1]2,957,904	3,050,452
Crushued	2,676,544	2,899,991
On hand March 31	399,066	368,809

Crude Oil

	Pounds— 1946-47	1945-46
Produced	836,706,000	824,301,000
Shipped	903,571,000	889,321,000
On hand March 31	[2]72,068,000	91,943,000

Refined Oil

	Pounds— 1946-47	1945-46
Produced	[3]730,014,000	785,926,000
Shipped	.....	.....
On hand March 31	[4]191,326,000	405,976,000

Cake and Meal

	Tons— 1946-47	1945-46
Produced	1,180,451	1,279,313
Shipped	1,085,261	1,275,451
On hand March 31	126,818	56,210

Hulls

	Tons— 1946-47	1945-46
Produced	624,261	694,535
Shipped	597,876	718,205
On hand March 31	52,310	38,027

Linters

	Bales— 1946-47	1945-46
Produced	[5]860,361	879,880
Shipped	788,828	828,122
On hand March 31	[6]106,587	70,333

[1] Includes 100 and 992 tons destroyed during 1946-47 and 1945-46, respectively. Does not include 117,806 and 219,340 tons on hand August 1, 1946 and 1945, respectively, nor 64,873 and 44,394 tons reshipped during the seasons 1946-47 and 1945-46.

[2] Includes 22,794,000 pounds at oil mills, 38,856,000 pounds at refining and manufacturing establishments, and 10,438,000 pounds in transit.

[3] Produced from 784,587,000 pounds of crude oil.

[4] Includes 188,140,000 pounds at refining and manufacturing establishments and 3,186,000 pounds held elsewhere and in transit.

[5] Includes 257,487 bales first cut, 498,942 bales second cut, and 103,932 bales mill run.

[6] Includes 78,897 bales first cut, 18,182 bales second cut, and 9,508 bales mill run.

For Late Market Developments, See Page 4

sales of crude oil were made at 30c. per pound, tankcars, f.o.b. mills, a reduction of 2c. for the week. Demand for refined oil was dull and prices were lower and nominal at 35c. per pound, tankcars, same basis.

Oiticica—Consumers showed less interest in replacements, following the weakness in tung oil. Offers of new crop oil were scarce for shipment from Brazil and quoted at 34½c. per pound, tankcars, f.o.b. New York. Imports totaled 2,070 drums at New York last week for delivery on former orders.

Olive—This market continued quiet. Light stocks on the spot were held at $7 to $7.25 per gallon, drums duty paid, according to quantity and seller. Some 465 drums of Moroccan oil were received at New York last week.

Palm—(Aneta) Congo Palm Oil Producers' Commission has decided to halt discussions with the Belgian government following the refusal to meet their demands. Earlier in the year Belgium had decided to purchase the total Congo palm oil production, estimated at 100,000 metric tons at 50 pounds sterling per ton. This caused some disturbance in certain Colonial circles, especially when it was rumored that Belgium intended to sell the amount exceeding national requirements to other countries at 104 pounds sterling per ton. Congo palm oil producers then insisted that the government agree to their exchange demands for the delivery of 1,500,000 bags and 200,000 tons of plate iron for the manufacture of vats. They also expressed the desire to be allowed to deliver directly to those countries the portion which Belgium would resell to South Africa, Rhodesia and the Congo.

Peanut—Light trading was reported in crude oil at 32c. per pound, tankcars, f.o.b. mills, a decline of 2c. per pound. Demand was featureless and the market easy and nominal. Refined was nominal at 35c. per pound, tankcars, mills.

Soybean—Quiet demand and offers of resale oil continued to weaken this market. Prices were lower for all positions. Crude oil trading was restricted to occasional tankcars. Sales were reported at 27c. per pound, tankcars, f.o.b. mills for April shipment and 28c. for May. Quotations were nominal at 26½c. for May-June and at 25c. July-September. Refining alkali and clarified were reduced 2c. per pound. Refined winterized was lower and nominal at 31 to 31½c. per pound, tankcars, f.o.b. mills.

Tung—An easy tone continued to dominate this market. Prices were weak and were quoted nominally at about 34c. per pound, tankcars, with bids reported well below this figure. Light trading was reported at 35c. tankcars, early in the week. Drums were also nominal at 35½c., carlots and 36½c. for smaller quantities.

Fats and Greases

Greases—A decline of 3c. in prices took place last week and trading of moderate volume was transacted for all grades for soapmakers account. House grease declined to 21½c. per pound, loose, yellow, 21¾c. and choice white, 22c., same basis. Consuming inquiry was light and the tone of the market was reported easy.

Lard—Market was weak and declined about 3c. per pound. Offerings were liberal with trading inactive for domestic and export delivery. Cash lard was offered at 26¼c. per pound, tierces, and 24½c., loose, Chicago.

Stocks of lard and rendered pork fat in the United States, April 1, totaled 106,691,000 pounds, compared with 117,557,000 pounds, March 1, and 80,438,000 pounds, April 1, last year. The April 1, 5-year average was 174,555,000 pounds. Production in February was 138,683,000 pounds, against 220,245,000 pounds in January and 157,087,000 pounds, February, 1946. Domestic consumption and for export totaled 144,114,000 pounds in February, compared with 166,013,000 pounds, January, and 150,392,000 pounds, February last year. Chicago lard stocks were indicated at 35,876,430 pounds, April 15, against 33,719,850 pounds, April 1, and 8,201,070 pounds, April 15, 1946.

Tallow—Prices broke 3c. per pound early in the week and sales of moderate quantities were reported at the decline to soapmakers. Extra was reduced to 21¾c. per pound, loose, fancy 22c. and special, 21⅝c., same basis.

Animal Oils

Degras—Demand was light and confined to immediate needs. Prices were unchanged and fairly steady.

Grease Oil—Market was easy. Demand has fallen off and prices declined about 5c. per pound. Common No. 1 was quoted at 29½c. to 30c. per

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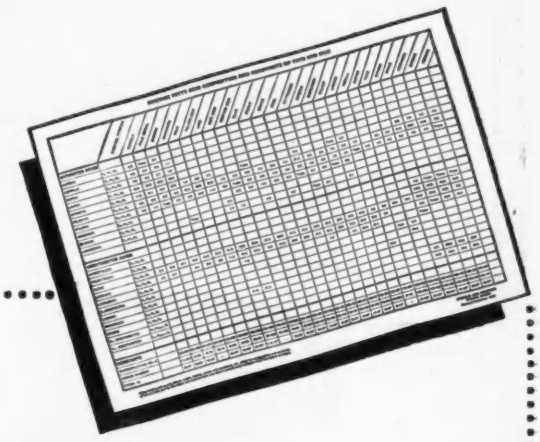
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pound, drums, Chicago, and prime burning at 31½c. to 32c., same basis.

Neatsfoot—Trading was slow. Market was easy and reflected the weakness of pressing stock.

Oleo—This market was easier, and quotations declined 4c. per pound. Extra was quoted nominally at 29c. per pound, tierces, Chicago.

Fish Oils

Cod—Arrivals of Norwegian oil totaled 200 drums at New York last week and were delivered on previous contracts.

Menhaden—Trading in crude and refined oil was at a standstill. Limited stocks of refined oil were held at former levels.

Sperm—Arrivals totaled 1,519 tons at New York from Liverpool last week and delivered against former contracts.

Whale (Aneta)—The factory ship William Barendsz was enroute to Holland with 12,885 metric tons of whale oil following the close of the Antarctic whaling season and was due to arrive at Rotterdam about the middle of May.

Fatty Acids

Red Oil—As a result of the decline in tallow and grease, the market was easier and quotations were reduced 3c. per pound. Buying interest has slackened and trading was restricted to actual needs. Deliveries against orders also in less demand. Single distilled was lower at 28½c. per pound, tankcars, and at 29¾c. to 30¾c. per pound, in drums, and double distilled at 32¼c. to 33¼c., drums, according to quantity.

Stearic Acid—Prices were reduced 1c. per pound for all grades. Demand was less active and the market was lower, reflecting the unsettlement in basic materials. Single pressed was reduced to 36c. to 37c. per pound, bags, as to quantity, double pressed, 37½c. to 38½c., and triple, 40¼c. to 41¼c., same basis.

Cake and Meal

Cottonseed Meal—Resellers unable to furnish instructions sold 41 percent meal at $64.50 per ton, f.o.b. mills, Alabama. Georgia and Carolina mills were asking $67 to $69 per ton, with no sales reported. Cake was scarce in the Valley as most mills were sold up. Small lots of 41 percent slabs were sold at $61 per ton, loose, with additional bids refused.

Linseed Meal—Good demand against contracts, while new business slow.

Minneapolis.—Demand continued fair and prices unchanged at $81 to $82 per ton. Crushers released small supplies. Buyers were not particularly aggressive, except on old contracts.

Shipments of linseed meal, in pounds, were as follows:—

	1946-47	1945-46
This week	8,750,000	8,040,000
Since Sept. 1	239,220,000	281,300,000

Peanut Meal—Stocks for April shipment were scarce, while May was offered freely at $65 per ton, sacked, mills, with little buying interest.

Rapeseed Meal—An emergency allocation of 900 long tons of rapeseed meal to Denmark was announced last week by the Department of Agriculture. This is in addition to the 10,000 long tons of cake or meal to that country on February 4 for the first six months of 1947.

Soybean Meal—This market was easier and 41 percent, sacked, was offered at $62 per ton, f.o.b. Mississippi mills for April-May shipment. Trading was inactive.

Waxes

Beeswax—While demand was slow, the market was fairly steady and in sympathy with high cost of replacements. Quotations for spot stocks were unchanged.

Carnauba—Business was quiet, with buyers reported bidding at lower prices for spot stocks. Supplies here were reported as not heavy and generally well held. Chalky, No. 3 was quoted at $1.26 to $1.27 per pound; North country, No. 2, $1.35 to $1.36; North country, No. 3, $1.26 to $1.28; refined, $1.38 to $1.39 and yellow, No. 1, $1.65 to $1.67.

Japan—Market was dull and stocks on the spot were held at 35c. to 38c. per pound, depending upon seller and quantity.

Ouricury—Trading continued quiet. Prices were unchanged and nominal.

Foreign Trade Council Annual Meeting Oct. 20

Eugene P. Thomas, president of the National Foreign Trade Council, announced last week that the thirty-fourth annual convention will be held in St. Louis, Mo., on October 20-22.

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Agricultural Chemicals

Buying interest centered chiefly around the basic fertilizer chemicals last week. There was no apparent relief to the shortages of stocks and transactions for prompt shipment were necessarily restricted. Shipments of ammonia sulphate were reported freer against contracts. Superphosphate remained tight while the call for soda nitrate far exceeded the available supply. A major producer of potash announced prices for 1947-1948. The figure is lower but is a works price. At the new basis, consumers near the works will receive the most benefit; nationwide consumers can purchase at a little lower level and port operators will pay slightly more. In packing-house byproducts both dried blood and tankage were a shade easier. Conservative buying featured the insecticide and fungicide materials

Production of superphosphate basis 18 percent a.p.a. in January registered a gain of 15 percent over output in the same month in 1946 and 23 percent over January, 1945, according to statistics compiled by the National Fertilizer Association. Most of the increase over the production of the previous January may be attributed to greater production of normal superphosphate in January, 1947, amounting to 763,000 short tons as compared with 657,000 short tons produced a year ago. Production of wet base goods basis 18 percent a. p. a. was only slightly greater, the increase being 45 short tons, than for January, 1946. January, 1947, output of concentrated superphosphate, 45 percent a. p. a. basis decreased by almost 200 short tons from production during the preceding January.

Production figures given below unless otherwise designated are from the Bureau of the Census.

Nitrogenates

Ammonia Nitrate—February production amounted to 84,070 tons of original solution, compared with 89,747 tons in January and 38,543 tons in February, 1946. Importations of ammonia nitrate mixtures in January amounted to 6,354 tons.

Ammonia Sulphate—Production in February showed a moderate increase. The total was placed at 26,791,000 pounds of technical, against 24,487,000 pounds in January and 24,355,000 pounds for February, 1946. Contract shipments are said to be of better dimensions but there was no apparent increase in additional offerings.

Bone Meal—Supply position tight with prices firm. Purchases for feed and fertilizer have taken practically all of the output for April.

Calcium Cyanamide — Importations for January amounted to 13,896 tons, compared with 24,594 tons and 18,063 tons for the corresponding months in 1946 and 1945 respectively.

Dried Blood—Buying interest from the feed trade has relaxed and the market was lower. Spot material was priced at $9.25 per unit ton here and in Chicago. Importations of 4,178 bags from South America were noted last week.

Soda Nitrate — Imports of nitrates from Chile had almost reached the half-way mark at the end of March. According to figures compiled by the Civilian Production Administration, imports have reached approximately 200,000 tons out of a total of 550,000 tons expected this year. Although ships are being loaded as rapidly as possible at Chilean ports, it did not appear that the entire supply would arrive in this country in time for Spring uses. The delays caused by strikes and the difficulty of obtaining ships at the start of the program is the reason for deliveries running behind schedule.

Tankage — Prices were a shade easier with demand light. Scattered sales were reported at $8.75 per unit ton here and in the West.

Phosphates

Phosphate Rock — Demand continued active enough to tax production and the market retained the same tight supply condition recently noted. Exports in January amounted to 53,935 tons of which 37,267 tons were Florida land pebble rock and 16,668 tons were Tennessee, Idaho and Montana rock. Exports in January last year were 45,586 tons and 15,715 tons in 1945.

Superphosphate — January production of normal 18 percent basis was placed at 829,752 tons by the NFA. Production in January, 1946, was 724,989 tons and 676,507 tons for the same months in 1945. Shipments during January were 463,496 tons and the amount used in mixed goods was 369,927 tons. Stocks on January 31 were 806,733 tons, compared with 937,384 tons at the close of January, 1946, and 936,431 tons on January 31, 1945. Current market conditions have continued exceedingly tight regardless of the approach of the end of the active fertilizer season.

Potashes

One of the major producers of potash has announced the 1947-1948 contract prices effective June 1, 1947, to May 31, 1948. High-grade muriate of potash 62 percent K_2O minimum and granular muriate of potash 48 percent K_2O minimum are priced at 37½c. per unit-ton of K_2O. Manure salts, run-of-mine 22 percent K_2O minimum is held at 20c. per unit of K_2O. Prices are f.o.b. cars at seller's plant in bulk per ton of 2,000 pounds, minimum carlots 40 tons. On high-grade muriate of potash only, freight will be equalized on the basis of 62½ percent K_2O. The usual discounts will prevail.

Insecticides

Inquiry has increased for the various insecticides and fungicides and while purchases have leaned toward the conservative side, the total volume is reported fairly satisfactory. The position of the general market has not altered materially. Producers are facing a severe shortage of containers. The boxcar situation was reported slightly better but far from normal. The February output of lead arsenate was only half the usual level for that month but calcium arsenate reached the customary figure. The West has been a steady buyer of calcium cyanide and the movement of all grades of copper sulphate has been fully up to seasonal expectations.

Production of calcium arsenate in February registered 1,543,000 pounds, compared with 1,765,000 pounds in January and 1,139,000 pounds for February, 1946.

Lead arsenate output amounted to 3,691,000 pounds in February, against 4,923,000 pounds in the preceding month and 7,567,000 pounds in February of last year.

Potato and tomato growing may be restricted in a 3,000 acre area centering around Hicksville, Long Island, the site of the only known golden nematode infestation in North America, by the State Department of Agriculture under a bill signed by Governor Dewey. A statement of policy incorporated in the bill declares that the golden nematode is a serious threat to the potato crop and related crops. If the Commissioner of Agriculture orders a farmer to cease growing potatoes or tomatoes, the Commissioner may make an agreement with him to compensate him for the loss of use of his land. Under such an arrangement the Commissioner can pay up to $94.75 an acre to keep land out of cultivation.

Sulphur and Pyrites

Consuming demand has continued active and has been fed promptly from adequate stocks on hand. No additional news was heard regarding the levying of the Texas state tax of $2 per ton. Pyrites has found an outlet through regular contract channels. Shipment prices have remained unchanged.

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

Dried blood, 25c. per unit-ton.
Tankage, 25c. per unit-ton.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
71.5	71.5	71.5	71.8

(For Current Prices see Page 9)

OPD—4-21-1947 75

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4—Devine No. 11, 40"x43" Vac. Shelf Dryers; (1) 60"x160"; (1) Lab. Size.

1—Stokes No. 79D-80A Tube Filler, Closer, in Stainless Steel.

4—Ferguson Automatic Case Gluers and Sealers.

6—Stokes Rotary "D" Tablet Machines.

2—Colton Rotary 10-35 Tablet Machines.

12—Read Mixers, Jktd., Ribbon Type, 33"x34"x72".

4—Wrap Around Labelers for Cans or Jars.

2—Complete Packaging Lines, Powder or Liquids.

1—Stokes No. 38 Electrically Heated Shelf Dry'er.

2—Stainless Kettles, 500 Gal. —100 P.S.I., other sizes too.

6—Copper Pans for Coating, 20" to 38", belt driven.

3—Sperry Filter Presses—Rubber Plates and Frames, 24" and 30", 4 eye, closed delivery.

4—Shriver 42" Cast Iron and Wood Plate and Frame Filter Presses.

1—Monel 250-Gal. Jacketed Vacuum Pan.

22—Fitzpatrick Model D Stainless Hammer Mills, with Expl. Motors.

6—Rubber Lined Tanks—1,600-3,000 Gals.

1—Readco S.S. 150-gal. Jktd. Mixer, 60 HP.

4—New Jersey Pony Labelrites.

1—Stokes & Smith Automatic Auger Powder Filler.

4—Rubber Mills, 36"-48"-60", with motors.

2—Copper Jacketed Kettles; 75-250 gal., dbl. motion agitator.

1—Louisville Steam Dryer, 54" dia. x 30' long, complete.

●

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FIRST MACHINERY CORP.
157 Hudson Street,
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SPECIAL ITEMS FROM STOCK

BRONZE DRUM DRYER

1—Buffalo 48" dia. x 40" face ROTARY VACUUM DRUM DRYER, with bronze chrome plate drum. Complete with 3 receivers, barometric condensers and all accessory equipment. SPECIALLY PRICED.

KETTLES

STAINLESS STEEL KETTLES

22—Groen 80 gal. stainless steel Steam Jacketed Kettles with covers and stands and bottom outlets.
7—Groen 60 gal., same as above.
2—40 gal., same as above.
4—Groen 30 gal.
1—20 gal. jacketed.

ROTARY VACUUM DRYERS

3—5'x33' J. P. Devine ROTARY VACUUM DRYERS, welded jackets, roller bearings, speed reducer drive.
1—5'x33' J. P. Devine, riveted jacketed, ROTARY VACUUM DRYER, roller bearings, arranged for belt drive.

VACUUM FILLING LINE

1—K. K. 8 stem Rotary Vacuum FILLER.
1—K. K. 20' steel CONVEYOR BELT, 4" wide.
1—CAPEM syl. head CAPPER with automatic CAP FEED.
1—WEEKS automatic straight line LABELLER.

DRYERS

2—6' dia. x 50' long LOUISVILLE ROTARY STEAM TUBE DRYERS, each with two rows of 54 tubes, 3½" and 4", gear reducer drive.
1—5 x 26 Hersey Monel-lined ROTARY HOT AIR DRYER, with Monel-lifting flights, complete with flexitube heating units, fan, motors, hoods, cyclone.
2—Buffalo 32" x 90" Atmospheric DOUBLE DRUM DRYERS, M.D.
2—Buffalo 42" x 90" Atmospheric DOUBLE DRUM DRYERS, M.D.
2—Buffalo 32" x 72" Atmospheric DOUBLE DRUM DRYERS, M.D.
1—A. N. 4' dia. x 9' long atmospheric DOUBLE DRUM DRYER complete.
1—B. & C. 28" dia. x 60" face Atmospheric DOUBLE DRUM DRYER complete
2—Direct heat ROTARY DRYERS; 5'x30', 6'x35'.
1—6'x35' Louisville Direct Heat single shell ROTARY DRYER.
1—4'x20' Ruggles - Coles Indirect Heat Rotary Dryer.
1—4'x20' ROTARY KILN or ROTARY DRYER, Ruggles-Coles, geared-head, motor drive.
1—6'x60' ROTARY DRYER.

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Aldrich Pump Co. Vertical Triplex HYDRAULIC PUMPS, 2¾"x2", equipped with Herringbone Gears. 67.5 gpm. Maximum pressure for intermittent duty 2,200 lbs., for continuous duty 1,800 lbs. Pump and motor mounted on common bed plate.
Motors are 75 HP, 3/60/220-440 volts, 1740 RPM. Complete with starting panel, consisting of G. E. motorstarter switch, push button control, square "D" Switch, and capacitator.
Purchased new 3½ years ago. Excellent condition.
Available for immediate delivery.

ALUMINUM KETTLES JACKETED

80—Aluminum Jacketed KETTLES, 20 to 80 gal. capacity, like new.
1—500 gallon with agitator.
1—750 gallon with agitator.
1—1,200 gallon with agitator.

STAINLESS STEEL TANKS

20—New 250 gallon Vertical closed Stainless Steel Tanks, 38" dia. x 52" deep.
1—900 gallon Vertical Closed Stainless Steel Tank.
1—New 350 gallon Vertical Closed Stainless Steel Tank.
1—New 300 gallon Vertical Stainless Steel Tank.

ALUMINUM TANKS

24—Closed STORAGE TANKS, rectangular shaped, 73"x34"x60", 700 gal. capacity.
24—Closed STORAGE TANKS, rectangular shaped, 50"x46"x72", 800 gal. capacity.
9—250 GAL. NEW CLOSED HORIZONTAL STORAGE TANKS, OVAL SHAPED, APPROX. 46" AND 28" BY 61" LONG, 18" ROUND MANHOLE IN TOP, ⅛" PLATE.

TABLET MACHINES

2—Stokes RD-4 Rotary 16 punch, maximum 1" dia.
1—Stokes "R" single punch, maximum 2-¼" dia.
4—Stokes "F" single punch, maximum ¾" dia.
1—Stokes "N" single punch, maximum ½" dia.

1—Stokes No. 2 gear type TUBE FILLER.
1—Colton No. 2 worm type TUBE FILLER.
2—Colton No. 2 TUBE CLOSERS.

MISCELLANEOUS

2—J. P. Devine belt driven two stage, 12 x 12 x 12 ROTARY VALVE DRY VACUUM PUMPS.
1—6'x8' OLIVER FILTER UNIT, complete.
2—J. H. Day, Size D, 600-lb. DRY POWDER MIXERS, M.D.
1—450 gal. copper steam jacketed KETTLE.
2—W. P. MIXERS, Jacketed, 100-gal. zigma blades.
1—York 500 GPM HOMOGENIZER, bronze fitted, with 15 H.P. A.C. motor.
1—250 gal. Copper jack. agit. closed KETTLE OR VAC. STILL.
2—Copper steam jacketed agitated KETTLES, 1—54" dia. x 42" deep, 300 gals.; 1—36" dia. x 31" deep, 70 gals.
1—J. H. Day auger POWDER FILLER.
2—Colton No. 3 TOGGLE Globule PRESSES, for making capsules.
4—250 gal. closed GLASS-LINED TANKS.
1—Pneumatic Scale six head CAPPING MACHINE.
Approximately 300 feet of STEEL BALL BEARING ROLLER CONVEYOR, from 10" to 24" widths.

LIQUIDATION
Complete
DISTILLING PLANT

1—Lummus CONTINUOUS DISTILLING UNIT, capacity approx. 15,000 wine gal. of 190 proof alcohol per 24 hrs.
1—Lummus CONTINUOUS DISTILLING UNIT, capacity approx. 5,000 wine gal. of 190 proof alcohol per 24 hrs.
Each Unit above consists of a Beer Still, Aldehyde Column, Rectifying Column, with Dephlegmator, Condensers, Coolers, Pressure Regulating Valves.
Still set up as operated.

6—DeLaval motor driven YEAST SEPARATORS, stainless steel Bowls, explosion proof motors.
5—TANK SCALES, 72,000 lb. capacity.
4—Fletcher 40" solid stainless steel Basket CENTRIFUGALS, direct motor driven with two speed motors with skimmers and unloading plows.
1—Buffalo Atmospheric DOUBLE DRUM DRYER, 42" x 100".

MISCELLANEOUS
Motor Driven Bronze Pumps, Instruments, Dial Scales, Copper Pipe, Speed Reducers, Pulverizers, Portable Agitators with Explosion Proof Motors.

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NEW 1942 TO 1944

4—OLIVER ROTARY CONTINUOUS VACUUM FILTERS, 11'6" dia. x 18' face.
2—American Rotary Continuous VACUUM FILTERS, 12'6" dia. x 23' l. 10 disc.
2—Goslin-Birmingham EVAPORATORS, 6 effect.
1—COAL PULVERIZER, Type E-35, Babcock & Wilcox, with 100 H.P. motor.
4—TWO-ROLL SAW TOOTH CRUSHERS.
1—No. 30-NF Williams ALL STEEL HAMMER MILL.

See ad this paper, March 24, 1947, issue.

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2—DRY VACUUM PUMPS, Ingersoll-Rand, 1048 CFM, each 17"x 10", Duplex, with belt idlers for short drive. Used one week.

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2—Lab. Vacuum Shelf Dryers, with condensers.
3—Rotary Vacuum Dryers, 3'x15', 4'x20', 5'x33'.
2—Rotary Steam Tube Dryers, 6'x27'6", 6'x25'.
2—Buflovak Vacuum Drum Dryers, 24"x20", 48"x40".
6—Rotary Dryers, 4'x40', 5'x35', 6'x40', 6'x60'.

JUST PURCHASED!

2—Bird 40" Solid Basket Centrifugal, 1800 RPM.
2—Rotex 20" x 48" Screens, Single & Double Deck.
1—Pneumatic Scale, 8 Spout Bottle Filler with Single Head Automatic Capper.
1—36" C.I. Plate & Frame Filter Press, 42 Chambers.
4—40" C.I. Plate & Frame Filter Presses, 44 Chambers.
2—32"x32" C.I. Recessed Filter Presses, 36 Chambers.
2—No. 4 & H-3 Nash Vacuum Pumps.
1—Fletcher 30" Suspended, Solid Basket, Centrifugal, 1,200 RPM.
1—Buflovak 6' dia. Vacuum Crystallizer.
2—Alsop Sealed Disc Filters, 1,000 & 3,000 sq. inches.
10—1,000 and 2,000 lb. Powder Mixers, NEW.
6—Baker Perkins and Readco 100 gal. Jacketed Mixers.
7—Durlron & Lead & Haveg Centrifugal Pumps, 1" to 3".
800' of 18" roller conveyor.

1—Jeffrey Hammer Mill, 24"x18".
2—Lehman 5 Roll Roller Mills, 20"x48".
1—100 gal. Pebble Mill.
1—Abbe ½ gal. 10 Jar Mill, Motor Driven.
1—Schutz O'Neil 16" Ball Bearing Style "D" Limited Mill.
1—Hardinge Ball Mill, 2'x8".
1—Day 18" pressure Ointment Mill.
5—Bantam and 1-SI Mikro Pulverizers, ¾ & 3 H.P.

2—Vallez Filters, Lab.
4—American Filters, 4'-4 Disc, 6'-2 Disc, 6'-4 Disc, 12'-10 Disc.
4—Oliver 8'x6' Rotary Hopper Dewaterers.
4—Oliver Filters, 8'x8', 8'x12'.
6—Shriver, C. I. Filter Presses, 12", 18", 24", 30", 32", 36".
5—Shriver Wood Filter Press Skeletons, 18", 24", 30", 36".

4—Sharples No. 6 Centrifuges.
2—De Laval No. 600, 700 Clarifiers.
3—ATM 40" Centrifugal, perforated basket, 1,200 RPM.
5—Tolhurst 32", 40", 48" Self-Balancing Type Centrifugals.

11—Stainless Steel Jacketed Kettles, 60, 80, 100, 150, 300 gal., New.
10—Brand New Stainless Steel Tanks, 100 to 1,500 gal.
6—Pfaudler Jktd., Agtd. Kettles, 100, 125, 200, 750 gal.
8—Steel Jktd. Kettles, 375 to 1,200 gal., some agitated.
10—Aluminum Kettles, 40, 60, 80, 100 gals.
1—60 gal. Cast Semi-Steel Autoclave, agitated, 3" wall.
7—Copper and Steel Vacuum Pans, 2', 4', 6', 7', 8', 12' dia.
5—Evaporators, single to quadruple effect, 500 to 10,000 sq. ft.

TABLET MACHINES

6—Stokes "T," 1½".
2—Stokes "R," 2½".
2—Stokes Rotary DD2, 1¼".
10—Stokes Rotary D4, 31/32".
2—Colton Rotary, ¾".
1—Mulford Single Punch, 1¼".
6—Stokes "F," ¾".
5—Colton Single Punch, ⅝".
2—Stokes Rotary BB1, ⅝".
2—Stokes Rotary B, ⅝".

5—Day, W. & P. Readco Double Arm Mixers, ½ to 100 gal.
1—Readco 4 gal. Stainless Steel, Double-Arm Mixer.
2—Robinson & Wolfe, 3,000 lb. Powder Mixers.

3—Ball & Jewell Rotary Cutters, No. 0 & No. 1.
5—¼ hp. Explosion-Proof, Gear Head, Portable Agitators.
6—Nash Vacuum Pumps, 20 to 55 CFM.
1—Knapp Automatic Can Labeler.
1—Filler Machine, 4 Spout Filler.
1—Kiefer Visco Piston Filler.
5—World, National Labelers.
10—12" Belt Conveyors, 20 to 50' centers, built to specifications.
1—Schaeffer Poidometer, 20"x4'.

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1—Buffalo Double Drum Dryer, 24" x 36".
2—Stokes Rotary DD2 Tablet Machines, 5 HP Motors.
1—Kent 3 Roll W. C. Mill, Chain Drive with 10 HP AC Motor.
1—Premier Colloid Mill—S.S. Rotor and Stator, with 25 HP Motor.
1—Shriver 12" Bronze Plate & Frame Filter Press, 12 Chambers, C. D.
1—W & P Mixer, Jacketed, 100 Gal. Capacity, Sigma Blades, No. 15 JMN.
1—Pebble Mill, 36" x 48", Silex Lined.
8—New, Stainless Steel Kettles—100, 150, 200 Gal.
8—New, Portable Agitators—¼ HP 1725 RPM, AC, 1 PH.

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2—Anderson No. 1 Oil Expellers.
1—4' x 9' Atmos. Drum Dryer.
10—Sperry 32" Iron Filter Presses.
14—Tolhurst 40" Suspended Type Centrifugals, Motor Driven, Bottom Discharge.

2—Devine No. 3 late type Vac. Shelf Dryers, Elec. Heated.
2—Stokes RD4 Rotary Tablet Machines, 16 die openings 1 3/16" dia. Also 5/16" and 7/16" dia.
11—Sharples No. 5A Stainless Oil Purifiers, latest type, 2 H.P., Motor Driven.
4—Rotex Sifters, 20"x81", 3 deck.
1—Chrystie 80'x45' Rotary Dryer.
1—Oliver Rot. Vac. Filter, 8'x10'.
1—Hardinge 3'x8' Conical Ball Mill.
75—36" x 36" Cast Iron Filter Press Plates and Frames.
1—Stokes No. 149 B Vac. Pump.
1—Gruendler 7" x 10" Jaw Crusher.
1—Gayco 3' Centrif. Air Separator.
1—Sturtevant 36" Rock Emery Mill.
1—Baker Perkins 9 gal. Double Arm Mixer, 2 H.P.
1—Sharples No. 6 Centrifuge.
6—Pfaudler Glass Lined Jack. Agit. Kettles, 350, 400, 750 gals.
10—Stainless steel, jacketed Kettles, new & used, 40, 60, 80 & 375 gals., some agitated.
4—Aluminum jack. Kettles, 60, 80 & 100 gals.
18—Copper jack. Kettles, 2, 20, 50, 75, 100, 250 & 350 gals., some agitated.
1—Abbe 2 Jar Mill, 2 gal. Jars.
1—Hammer Mill, 7½ H.P.
1—Williams No. 3 "Regular" type Hammer Mill.
1—Stedman 32" Single Roll Crusher.
1—Jeffrey 18" x 48" Single Deck Conveyor Screen.
25—New Stainless Steel Tanks, 100 to 1,000 gals.
1—6 spt. gravity Bottle Fillers.
New Water Stills, Gas and Elec.
New 40 gal. Pony Mixers.
4—Day Pot Mills, 24" x 32" dia.
12—Filter Presses, Iron, Wood and Rubber, 18" to 42" sq.
4—Centrifugals, 20", 26", & 40".
4—No. 0000 and No. 0 Raymond Mills.
10—Closed steel Kettles & Stills, up to 1,000 gals.
1—250 gal. lead lined Kettle.
1—700 gal. steel, copper lined vac. Filter Tank.
1—Dopp 50 gal. jacketed Kettle.
15—50 gal. steel Mixing Tanks.
1—Blystone 2,000 lb. horiz. Spiral & Paddles Steel Mixer.
6—Horiz. Mixers, 20 to 250 gal., single & double arm.
1—Faust 150 gal. Spiral Mixer.
2—Devine & Worth. Horiz. Vac. Pumps, 12" x 6", 8" x 6" x 4" x 6".
2—Worthington 12" x 12" x 12" Vac. Pumps.
2—DeLaval Multiple Clarifiers, 300 & 301.
2—Rotary Screens, 18" x 72".
6—Attrition Mills & Disc Grinders, up to 22".
1—Double Stand Steel 4-Roller Mill, 7" x 20".
10—Iron Mills, 12", 14" & 18".
8—Stone Mills, 8" to 32".
6—Lead & Paste Mixers to 72 gals.
3—Varnish Kettles, 200 gals.
1—Shutz-O'Neill 20" Pulverizer.
2—Double Roll Crushers.
300 ft. 12" Roller Conveyor.
15—New, Portable, Electric Agitators, ¼ to 2 H.P.
20—Rotary Centrif. & Triplex Pumps.
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1—Louisville Rotary Steam Tube Dryer, 6'x50'.
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1—Devine Vacuum Shelf Dryer, Double Doors, 20 Shelves.
1—Stainless Still, 40 gals.
2—Pfaudler Stainless Steel Tanks, 13,500 gals., Jacketed.
2—Shriver Cast Iron, Plate & Frame Filter Presses, 42"x42", 64 chambers, open delivery.
1—Day Jacketed Powder Mixer, 750 lbs.

R. GELB & SONS, INC.
UNION, N. J.
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1—No. 12 Sweetland Filter Press, 36 leaves, 4" centers.
1—4 ft. dia. x 32 ft. long Rotary Dryer, drive and motor.
1—4 ft. dia. x 9 ft. long Atmospheric Drum Dryer.
1—4 ft. dia. x 12 ft. long Atmospheric Drum Dryer.
1—No. 1 Raymond Pulverizer, Cyclone, Blower & Motors.
1—No. 1 Gruendler Pulverizer & 7½ HP motor.
1—No. 3 Mikro Pulverizer & Motors.
1—No. 2 Mikro Pulverizer & Motors.
1—5 ft. Gayco Separator & 5 HP motor.
1—30" Raymond Separator & 3 HP Motor.
1—Model 100 Sprout Waldron "V" Style Mixer.
2—24" x 24" Sperry Plate & Frame Iron filter presses.
1—30" x 30" Shriver Plate and frame Wood Filter Press.
1—6 ft. dia. x 6 ft. long Thropp Silex Lined Pebble Mill.
1—6 ft. dia. x 5 ft. long Porcelain Lined Pebble Mill.

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W. & P., Day Cincinnatus and Imperial Type Mixers; Hottmar Paragon, Read, Single and Double Arm from 2 gallons to 300 gallons.
Elgin 24 spout Rotary Vacuum Filling Machine.
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J. H. Day and Kent, Three Roll, 12" x 36", 16" x 40" Mills, motor driven with motor.
Mullers or Chasers 2 ft. to 6 ft. sizes.
Ermold and World Semi-Automatic Labeling Machines.
U. S. Bottlers C-10 and A-6 Acme Fillers.
Copper Steam Jacketed Kettles with and without Agitators.
Read, and Century Vertical Mixers, M.D.
Johnson and Oliver Sweetland Filter Presses.
Copper Stills and Vacuum Pans.
Huhn Rotary Continuous Dryers.
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Package Machinery Co., Johnson, Miller, all types of Wrapping, Packaging and Cartoning Equipment. (Please submit Samples of your item with Your Inquiry.)

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Union Standard Equipment Co.
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CHOICE EQUIPMENT *FOR* IMMEDIATE DELIVERY

3—J. H. Day sifters, 40" x 10' long.
3—Pony mixers from 8 gallons to 20 gallons.
2—30 x 30 cast iron filter presses.
3—W & P Type JNM15 mixers.
1—Stokes DDS2 tablet press "motorized".
25—New and rebuilt agitators, both slow and high speed, some explosion-proof motors.

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CHEMICAL & PROCESS MACHINERY CORPORATION
146 GRAND ST. • NEW YORK, 13
WOrth 4-8130

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Stainless Steel Tanks, new, 100 and 200 gal., dished bottoms with stands.
20—Steam Jacketed Kettles, stainless steel and aluminum, 30 to 250 gals. capacity.
1—Dopp 125 gal. Steam Jacketed Kettle with agitator.
1—Stedman 40" Cage Disintegrator.
Stainless Steel Vert. Tank, 7' dia. x 10', No. 430 Chrome.
New Elec. Immersion Heaters, stainless, 500 watt, 115 volt, $15.00 ea.
Copper Tank with Agitator and Coil, 66" dia. x 7' high.
54—Pumps, Steam and Electric, made of iron, bronze, stainless steel.
1—DeLaval Lab. Separator with ½ H.P. Motor.
1—18-spout Karl Kiefer Rotary Filler.
10—New Sharples Oil Purifiers.
6—Stokes Rotary Tablet Machines, Model RD-4.
6—New Clevon Can Filling Machines.

SPECIAL

New Dry Powder Mixer, ribbon type, 8 cu. ft.

H. LOEB & SON
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Stainless Steel Pumps—Used Labour—2 in. and 2½ in. R55—Labour alloy. Stainless Steel Flanged Gate Valves—Used. 1 in. to 6 in Nickel 29 percent. Chrome 19 percent, Moly 4 percent. John W. Saal, 450 Beechwood Place, Westfield, New Jersey. We. 2-4354.

For Sale—Three horizontal wood (cypress) churns. 260 gallon capacity each. Three inch gate valve discharge. Fourteen inch manhole. Complete with drum height wooden stands, hangers, pulleys, belts, shafting, 15 HP vapor proof GE motor. Available in thirty days. Suitable for latex or rubber adhesive manufacturer. Principals only. OPD 625.

EQUIPMENT OFFERED

For Sale—2300 gross collapsible tubes ⅝ by 4½, elongated tips, pure lead. Day Chemical Company, 713 So. 14th St., Newark, N. J.

EQUIPMENT WANTED

Wanted: Devine No. 12 vacuum shelf Dryer with or without surface condenser. Must be in good condition. Shelf size 40 in. by 43 in. Number of shelves 17 or 20. Send details and price wanted. Schofield Donald Company, Inc., 88 Shipman Street, Newark 2, New Jersey.

Testing machine wanted, universal, capable of testing up to 12,000 pounds in block shear. Send description, make and lowest price. Perkins Glue Company, Lansdale, Penna.

FACILITIES OFFERED

Spray dryer available for contract work. OPD 622.

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For sale: Six tons No. 200 Carbolon grain abrasive in original packages. Emil A. Schroth, 39 Hyatt Avenue, Newark, New Jersey. Mi 2-1778.

Available for immediate shipment from various points total 12,600 lbs. Advawet, non-ionic wetting agent. Give best offer. OPD 611.

Have a surplus output of 20 drums a day of nitrocellulose dopes—used for coating and waterproofing textiles or paper. These dopes are manufactured from nitro-cotton or scrap film or a combination of both. We will manufacture them according to your own specification. Will take contract for all or part of surplus production. We have been manufacturing dopes for over 20 years. Smithfield Chemical Co., Greenville, R. I.

Hexamethylene tetramine USP, 2,500 lbs., 34c., f.o.b. Midwest location, original unopened drums for immediate delivery. Write OPD 614.

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Do not wait until conditions further limit prospects of disposing of top-heavy inventories. Will purchase surplus unshipped commodities, all kinds. Particularly interested in gums, waxes, spices botanicals, oils, greases, pharmaceuticals, chemicals. OPD 590.

We want leaded zinc, 35% lead or over. Will purchase at premium price or can offer following materials in exchange: substantial number of brand new 55-gal. drums, either open head or tite head; chrome yellow; linseed oil; alkali refined soya, and also smaller containers, such as quart and gallon paint cans. OPD 629.

PLANTS WANTED

Wanted—To rent or buy: Small chemical plant or section equipped with stainless or glass reactors. Vacuum distillation desirable but not necessary. Production on royalty or lease basis can be arranged. OPD 624.

POSITIONS VACANT

Industrial engineer for well-established manufacturer of pharmaceuticals, who is enlarging present plant. Applicants should have experience in mechanical material handling, packaging, warehousing, methods, layout, quality control. Our organization knows of this advertisement. Answers will be treated in confidence, and should include all personal data, details of education and employment. Dept. R.C.B., Box 599, Wm. Penn Annex, Philadelphia 5, Pa.

Chemist with experience in organic chemistry familiar with oils, fats, and waxes principally. Old established firm expanding business. Good opportunity advancement for progressive chemist. State fully personal data and professional and business background. OPD 627.

Salesman for resins, natural gums, shellac and other imported raw materials. Metropolitan area. Only fully experienced man with successful sales record considered. Salary and commission. State experience, give full details. OPD 628.

Salesmen—Men wanted by an old established paint company for representation in two areas on a liberal commission basis. 1. State of New Jersey. 2. Westchester County, lower Connecticut, and lower New York State, excluding Metropolitan New York. This is an excellent opportunity for an aggressive man to associate himself with a quality house. All answers giving full particulars will be kept with strictest confidence. Hoboken White Lead & Color Works, 1501 Adams street, Hoboken, New Jersey.

Salesmen wanted—Experienced salesmen for industrial finishes with well-established lacquer and synthetic enamel manufacturer for Chicago and Philadelphia areas. Write qualifications. OPD 630.

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Employers: for executive, purchasing, sales, production, research, development and control personnel in the chemical process industries call Chemical Department. Position Securing Bureau, Inc. (Agency). 45 John street, New York City. Telephone COrtlandt 7-9650. Confidential and careful placements.

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Carbide & Carbon Plans South Charleston Plant

Ground has been broken for a new ten-story building to serve as administrative, engineering and operating headquarters for Carbide & Carbon Chemicals Corporation at its South Charleston, West Va., location. This building is scheduled for completion in early 1948. Meanwhile plans are also going ahead for a complete renovation of the present office building to provide increased facilities for employee services.

Cleveland Paint Technicians To Meet April 22

The Cleveland Paint, Varnish and Lacquer Association will meet at the Cleveland hotel, April 22. Guest speaker will be Arthur G. Hopcraft, director of purchases for the Cleveland Worm & Gear Company, and president of the Cleveland Purchasing Agent's Association.

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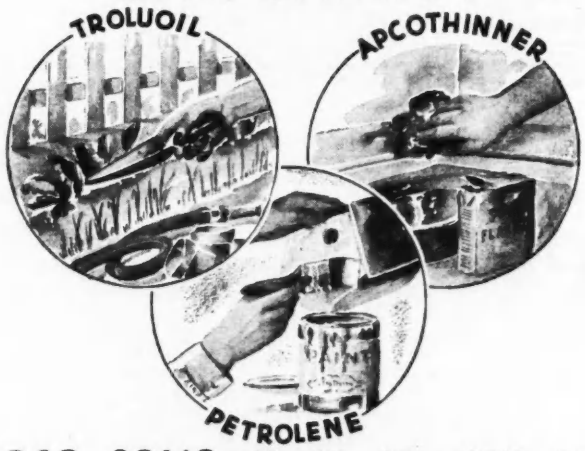

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